# CG Series II CAPTIVA 5

CG Series II Captiva 5
Owner’s Handbook

GM Holden Ltd, ABN 84 006 893 232 (hereinafter Holden)

**Change of name, address or ownership**

In the event of a Safety Recall, or for various reasons, Holden may need to contact you as the owner of this vehicle.

If you have recently changed your address, or name, or purchased this vehicle second-hand, please help us to help you by taking a few minutes to fill in and mail the forms at the beginning of the Service/warranty booklet.

For information about GM Holden's privacy policy or to update owner details online, please visit Holden's website at www.holden.com.au

**Note** Please refer to the inside front cover of the Service/ warranty booklet for the Vehicle Identification Certificate.

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# Introduction

We thank you for choosing Holden and want to assure you of our continuing interest in your driving pleasure and satisfaction.

This handbook applies to the current Captiva model. Therefore, due to different models and options, you may find reference in this Handbook to some equipment not fitted to your own vehicle.

Please note that all information, illustrations and specifications in this Handbook are based on the latest production information available at the time of printing. Holden reserves the right to make changes at any time without notice and without incurring any obligation.

# Introduction

Your vehicle is a designed combination of advanced technology, safety, environmental friendliness and economy.

This Owner's Handbook provides you with all the necessary information to enable you to drive your vehicle safely and efficiently.

Make sure your passengers are aware of the possible risk of accident and injury which may result from improper use of the vehicle.

# Using this manual

- The In brief section will give you an initial overview.
- The table of contents at the beginning of this manual and within each chapter shows where the information is located.
- The index will enable you to search for specific information.
- Directional data, e.g. left or right, or front or back, always relate to the direction of travel.
- Depending on the model variant, integrated special equipment and accessories, the scope of equipment of your vehicle can differ from the descriptions in this Owner's Handbook.

# Danger, warnings and cautions

**⚠Danger**

Text marked ⚠ **Danger** provides information on risk of fatal injury. Disregarding this information may endanger life.

**⚠Warning**

Text marked ⚠ **Warning** provides information on risk of accident or injury. Disregarding this information may lead to injury.

**Caution**

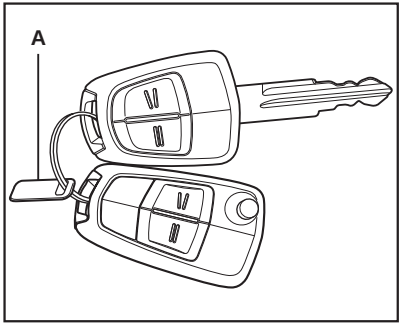
Text marked **Caution** provides information on possible damage to the vehicle. Disregarding this information may lead to vehicle damage.

# In brief

## Initial drive information

## Unlocking the vehicle

### Remote keyless entry




The key operates all locks and the ignition:

: Lock

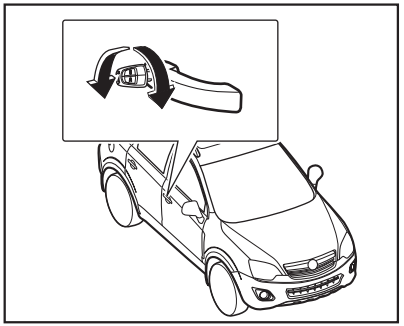
: Unlock

The code number for the keys is stamped on the key plate (A).

Keys and locks, see page 14.

Doors, see page 16.

### Manual door locks



- To lock all doors, insert the key into the driver's door lock and turn towards the rear of the vehicle. The key returns to the vertical position for removal.
- To unlock all doors, insert the key into the driver's door lock and turn towards the front of the vehicle. The key returns to the vertical position for removal.

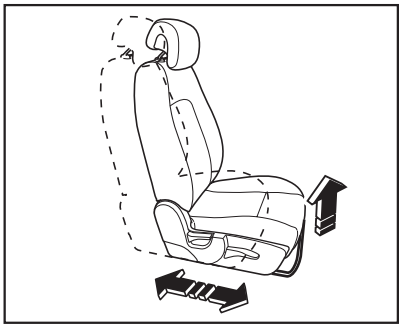
Keys and locks, see page 14.

Doors, see page 16.

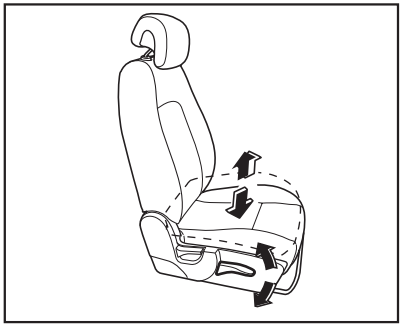
## Seat adjustment

The vehicle may have the following levers and switches for seat adjustment.

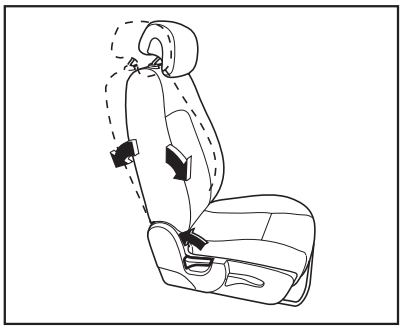
**Forwards/backwards**



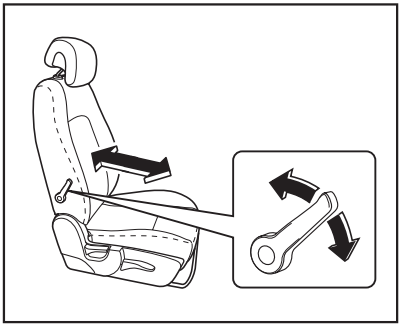
**Up/down**



**Recline**



**Lumbar**



Front seats, see page 26.

## Head restraints

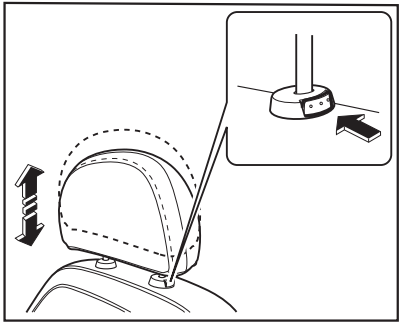
**⚠Warning**

Do not drive the vehicle with the head restraints removed, as it increases the risk of a neck injury in the event of an accident.

Do not attempt to adjust the driver's head restraint while the vehicle is in motion. This could cause a loss of control of the vehicle.

The head restraint safety feature is not intended to rest the head upon. It is solely for the reduction of whiplash neck movement in an accident involving the vehicle.

The centre of the head restraint should be at eye level, never at neck level.



To adjust the height:

1. Push the button in.
2. Pull the head restraint up or push the head restraint down.

Head restraints, see page 25.

## Seat belts

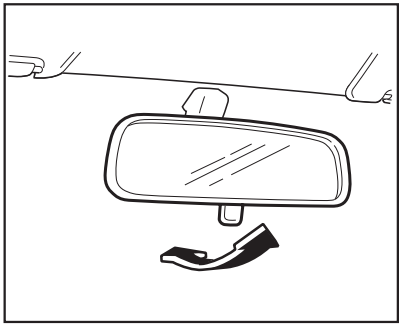
The belt should not be twisted. It should lie flat and fit firmly across your hips.

1. Pull the metal tongue across your body.
2. Clip it into the buckle.
   When the metal tongue is locked safely into place you will hear a click.

Three point belt, see page 29.

## Mirror adjustment

### Rear view mirror



Adjust the rear view mirror by moving right or left, up or down.

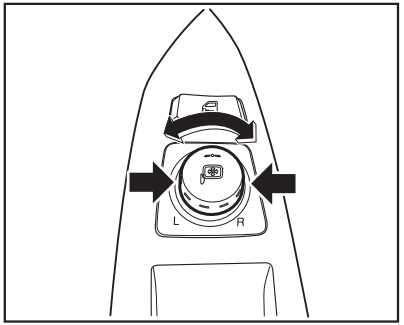
To reduce headlamp glare at night from following vehicles, pull the lever towards the rear of the vehicle.

For daylight operation, push the lever towards the front of the vehicle.

Interior mirrors, see page 21.

### Exterior mirrors

#### Power mirrors




To adjust the mirrors, turn the ignition to **ACC** or **ON**:

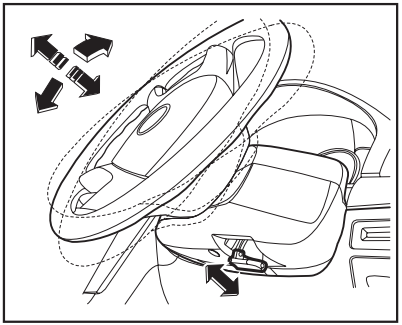
- Rotate the switch to the right to adjust the driver side mirror.
- Rotate the switch to the left to adjust the front passender side mirror.
- Push the sides of the switch to adjust the mirror angles.

Exterior mirrors, see page 20.

## Steering wheel adjustment

**⚠Warning**

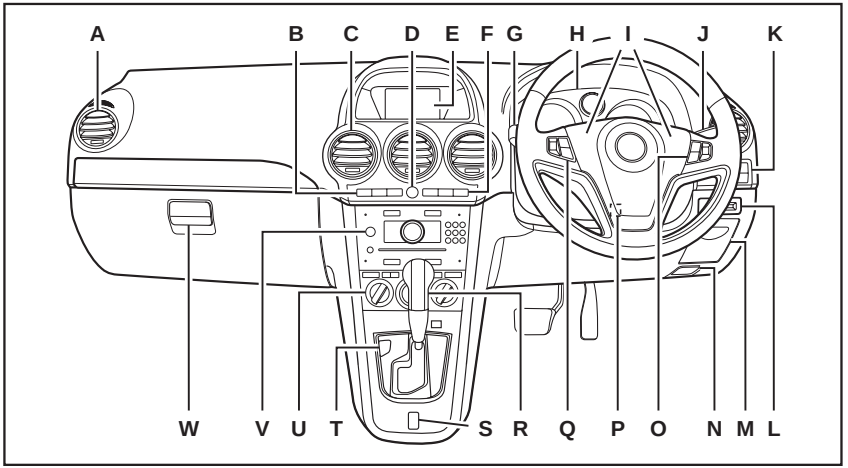
Do not attempt to adjust the steering wheel while driving.



1. To unlock, move the lever down.
2. To adjust, move the steering wheel up, down, closer or away.
3. To lock, move the lever up. Ensure the steering wheel is locked in position before driving.

Controls, see page 46.

## Instrument panel overview

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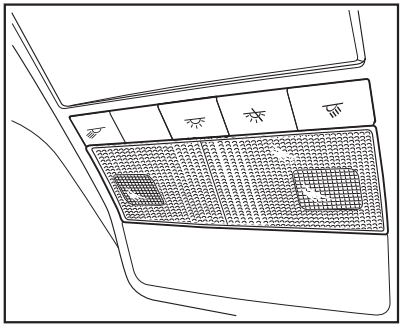
## Interior lighting



The two interior lamps are located in the centre-front of the roof and the centre-middle of the roof.

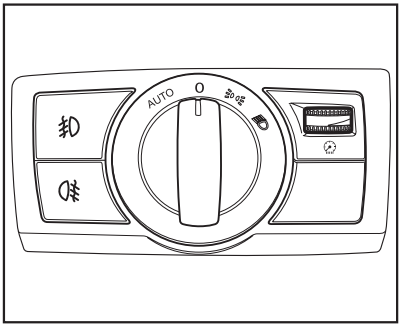
: On/off

: Reading lamps

: Reading and centre lamps

Interior lighting, see page 65.

## Exterior lighting




**AUTO**: Parking lamps or headlamps will turn on automatically depending on the outside light.

**O**: Off.

: Parking lamps, number plate lamps and instrument panel lights illuminate.

The headlamps will not come on.

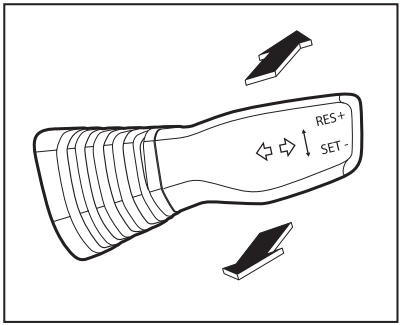
: Headlamps

: Front fog lamps

: Rear fog lamps

Exterior lighting, see page 62.

## High/low beam




Rotate the lamp control to ≡D.

High beam: Push lever

Low beam: Pull lever from high beam position

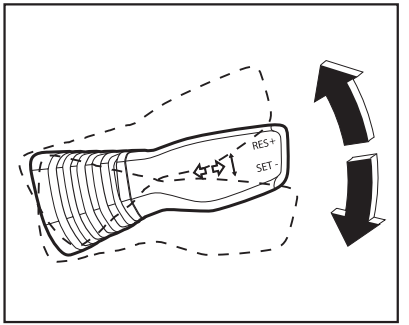
Headlamp flash: Pull lever

The high beam lamps can be flashed even if the headlamps and/or ignition are off.

Exterior lighting, see page 62.

High/low beam, see page 63.

## Turn signals



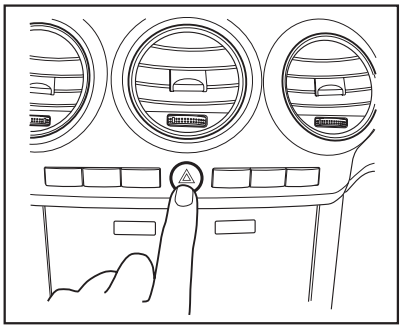

Left: Lever up

Right: Lever down

Exterior lighting, see page 62.

Turn signals, see page 64.

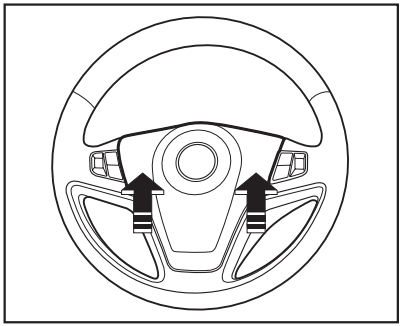
## Hazard warning flasher



Press △ to turn the hazard warning flasher on and off when the ignition is in any position.

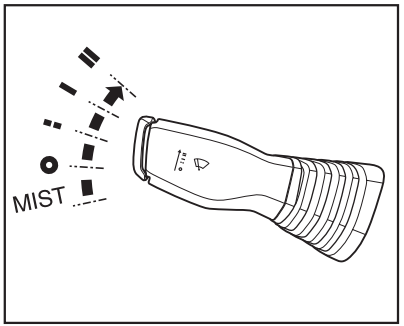
Hazard warning flashers, see page 63.

## Horn



Press the horn pad on either side.

## Washer and wiper systems




**MIST**: Wipers cycle while the lever is held down

**O**: Off

**--**: Adjustable wiping cycle

**I**: Continuous wipe, slow speed.

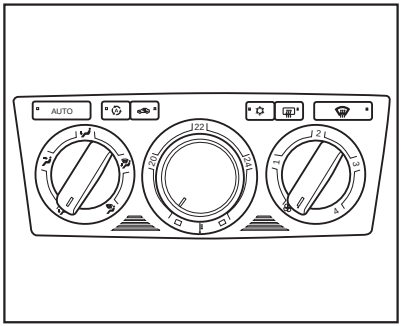
**II**: Continuous wipe, fast speed.

Pull to wash the windscreen.

Windscreen wipers/washers, see page 47.

Washer fluid, see page 48.

## Climate control

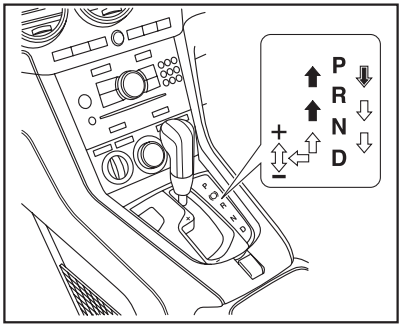



The climate control panel is located in the centre of the dashboard.

Climate control, see page 89.

## Transmission

### Automatic transmission




**P**: Park

**R**: Reverse

**N**: Neutral

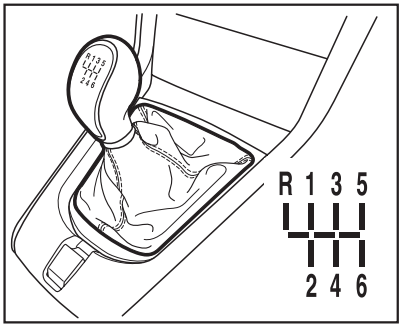
**D**: Drive

➠ Apply the brake pedal and press the select button on the shift lever to shift.

➡ Press the select button on the shift lever to shift.

⇨ It is not necessary to apply the brake pedal or press the select button on the shift lever to shift.

### Manual transmission




The manual transmission has five forward gears and a reverse gear.

The shift pattern is found on the top of the shift lever.

Automatic transmission, see page 104.

Active select mode, see page 105.

Manual transmission, see page 108.

## Starting off

### Check before starting

- Check that windows, mirrors and lamps are clean.
- Visually check tyre inflation. Check the tyre pressures each week using a pressure gauge.
- Ensure that all doors are closed and secured.
- Position your seat for comfortable driving.
- Adjust rear view mirrors.
- Fasten seat belts.
- Check that the warning indicators illuminate when turning the ignition on.

Starting and operating, see page 97.

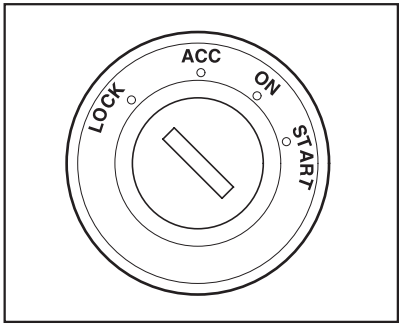
Starting the engine, see page 100.

## Starting the engine

**⚠Warning**

Do not switch the engine off while the vehicle is moving as there will not be any power assist for brakes or steering.

Never remove the key while the vehicle is moving, as this will lock the steering.




**LOCK**: The key is inserted and removed only from the LOCK position.

**ACC**: When the key is in the ACC (accessories) position, the audio system will still operate.

**ON**: When the key is in the ON position, the engine is ready to start and all electrical systems are active.

Do not leave the switch in the ON position for a prolonged period, unless the engine is running, otherwise the vehicle battery will discharge.

**START**: Turn the key to the START position until the engine starts.

The key automatically returns to the ON position when released.

Ignition positions, see page 99.

## Parking

1. Apply the park brake.

   Before leaving the vehicle, ensure Ⓟ is illuminated on the instrument panel.

   Electric Park Brake (EPB), see page 110.
2. Automatic transmission: Select position **P**.

   Manual transmission: If facing uphill or on flat ground, select 1st gear. If facing downhill, select reverse gear.
3. Shut all windows.
4. Switch off all exterior lamps.
5. Turn the ignition key to **LOCK** and remove the key.
6. Lock all doors.

# Keys, doors and windows

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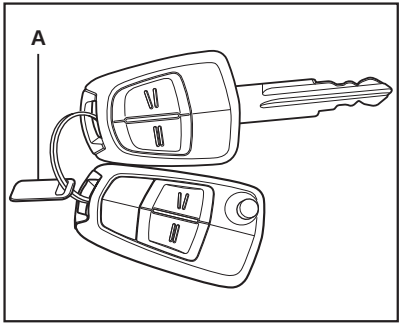
# Keys and locks

## Keys




The key operates all locks and the ignition:

: Lock

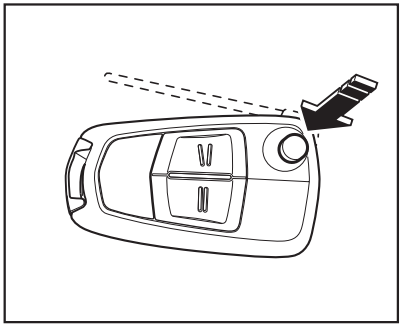
: Unlock

The code number for the keys is stamped on the key plate (A).

Record the key number, remove the key plate and keep the number and the key plate in a safe place (not in the vehicle).

If the original keys are lost, any additional or replacement keys must be purchased from and programmed by a Holden Dealer, using the key code number.

## Foldaway key blade



The vehicle may have a fold away key blade.

1. Press the button to extend the key blade.
2. To retract the key blade, press the button and fold the blade into the key.

   The key engages audibly.

## Matching transmitter(s) to the vehicle

Each remote keyless entry transmitter is coded to the vehicle.

If the vehicle's key is lost, inform a Holden Dealer immediately so the vehicle can be reprogrammed and will no longer recognise the missing key.

Additional transmitters also require re-coding to match the new transmitter.

Up to four keys can be matched to the vehicle at the same time.

**⚠Warning**

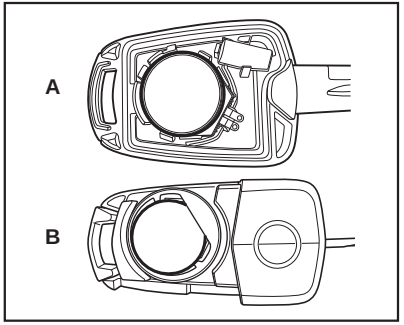
The remote control unit contains precision electronic parts. To help avoid transmitter trouble:

Do not leave the remote control unit in direct sunlight.

Do not treat the remote control unit carelessly.

Do not allow the remote control unit to get wet.

## Replacing the battery in the remote control




A. Non folding key

B. Folding key

As soon as the range of the remote control reduces, replace the battery:

1. Insert a small screwdriver in the notch on the cover (A) and prise it open.

   Remove the back cover (B).

2. Remove the battery.
3. Install the new battery, with the positive (+) side facing up. See Recommended fluids, lubricants and parts on page 177.
4. Close the cover so it engages audibly.
5. Test the operation of the transmitter.

**Note**

- Avoid touching the flat surfaces of the battery, the circuit board and other components inside the remote control with bare fingers. Handling will shorten battery life.
- Do not operate the key repeatedly at short intervals. The power supply may cut off for a short amount of time.

## About the keys

- Ensure that other keys on the key ring are not between the key and the vehicle.
- The remote control in the key has a range of approximately six metres.
- The range depends on the charge of the key battery, on ambient conditions, the key's location and the area between the key and the vehicle.
- If the key buttons do not work, move closer to the vehicle.
- Take care that no button is pressed unintentionally, especially when the vehicle is out of sight.
- Metallic window tint reduces the range of the key.
- The key buttons may not work if the vehicle is parked near strong radio activity, such as under TV towers (most likely in high lookout car parks).
- At times, a decrease in range may occur, which is normal.
- If the transmitter does not work:

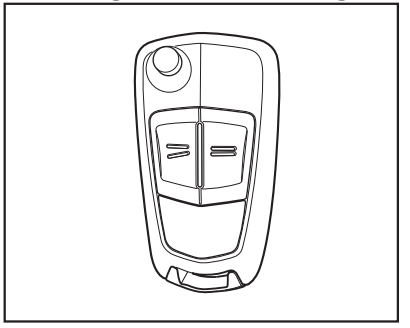
  You may need to stand closer during rainy or snowy weather.

  Other vehicles or objects may be blocking the signal.

  If you are still having trouble, contact a Holden Dealer.
- If pressing the key buttons does not work, the doors can be locked and unlocked by turning the key in the driver's door lock.
- If the vehicle is delivered with only one key, contact your Holden Dealer as soon as possible.
- Always store spare keys in a safe, dry place.
- Protect the remote control unit against moisture.
- Do not operate the key unnecessarily.
- The buttons on the key do not operate while the key is in the ignition.

# Doors

## Locking and unlocking



Press ⊟ once to:

- Lock all doors.
- Lock the fuel filler door.
- Flash the hazard lamps once.

Press ⊟ once to:

- Unlock all doors.
- Unlock the fuel filler door.
- Flash the hazard lamps twice.
- Flash the instrument panel lights.

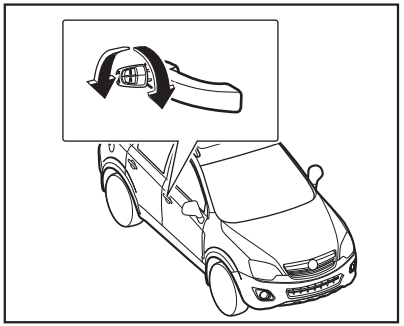
**Note**
If no door is opened within 5 minutes, all doors will automatically relock.

## Deadlocking

Press ⟹ a second time within 3 seconds of locking to:

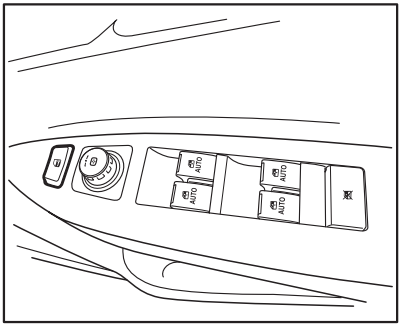
- Lock all doors and prevent them from being unlocked from inside the vehicle.
- Flash the hazard lamps once.

## Manual door locks



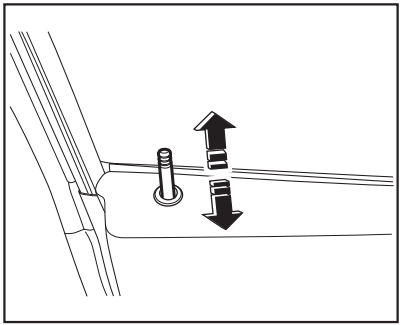
- To lock all doors, insert the key into the driver's door lock and turn anticlockwise (A), then turn back to the vertical position and remove.
- To unlock all doors, insert the key into the driver's door lock and turn clockwise (B), then turn back to the vertical position and remove.

### Locking/unlocking from inside




- The door lock switch is located in the driver's door.
- To lock the doors, press the door lock switch on the left side.
- To unlock the doors, press the door lock switch on the right side.

### Door lock snibs

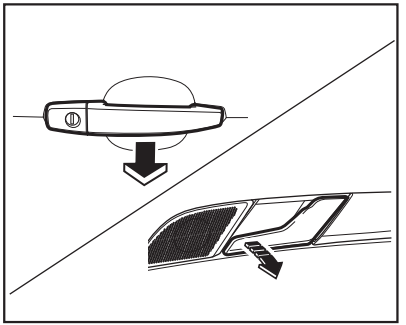


- To lock any door from the inside, push down on the door lock button.
- To unlock any door from the inside, pull up on the door lock button.

**⚠Warning**

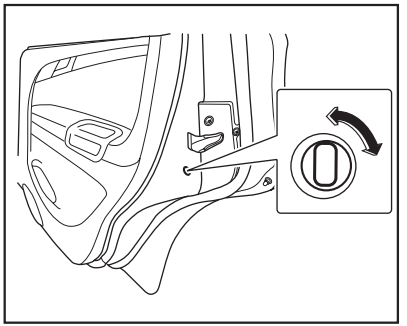
Before driving, close and lock all doors, especially when young children are in the vehicle.

### Opening doors



The driver's door and the front passenger's door can be opened by pulling the door handle from the inside, even if the doors are locked with the door lock button.

## Child safety rear door locks



Child safety locking helps prevent rear doors being accidentally opened by small children in the vehicle.

The locks are accessible when the door is open.

To prevent the doors from being opened from the inside, use the ignition key to turn the switch away from the vertical position.

**⚠Warning**

For safety, always check that the lock is operating correctly (after setting) by trying to open the door from inside the vehicle.

## Tailgate

**⚠Danger**

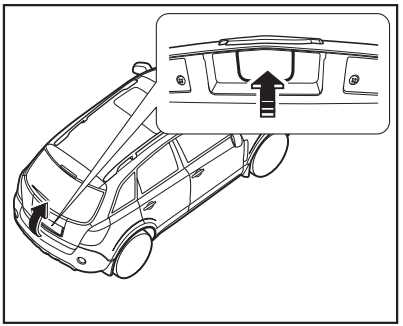
It can be very dangerous to drive with the tailgate open. Carbon monoxide (CO) gas can enter into the vehicle. You can not see or smell CO. It can cause unconsciousness and even death.

If you must drive with the tailgate open, make sure all windows are closed and switch the fan on to the highest speed using any setting that brings in outside air. Doing this will force outside air into the vehicle.

### Key button

To lock:

- Close the tailgate by pushing down until it latches securely.
- Press ⬭ to lock all the doors and the tailgate.



To unlock:

1. Press ⬭ to unlock all the doors and the tailgate.
2. Push the button above the number plate and lift the tailgate.

.

# Vehicle security

## Immobiliser

This vehicle is fitted with an immobiliser. It prevents unauthorised engine starting.

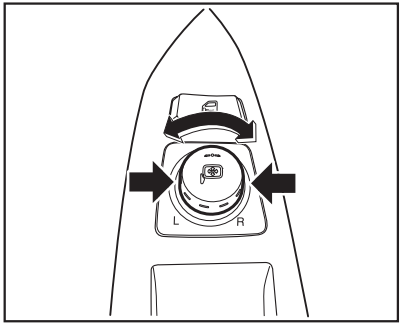
The ignition key will be recognised by the vehicle when the key is inserted into the ignition.

When difficulties in starting the vehicle are experienced, check the following:

- Do not have large bundles of keys attached to the ignition key.
- Do not have keys from other vehicles attached to the ignition key.
- If the vehicle's key is lost, contact a Holden Dealer immediately so the vehicle can be reprogrammed to no longer recognise the lost key as valid.
- Replacement keys can only be programmed by a Holden Dealer.
- A maximum of four keys can be programmed to suit one vehicle.
- Do not attempt to start the vehicle with a non-approved key.
- If a fault occurs or an incorrectly programmed key is used to start the vehicle, will illuminate. Contact a Holden Dealer.

# Exterior mirrors

## Power mirrors




The switches for the exterior rear view mirrors are located on the driver side door.

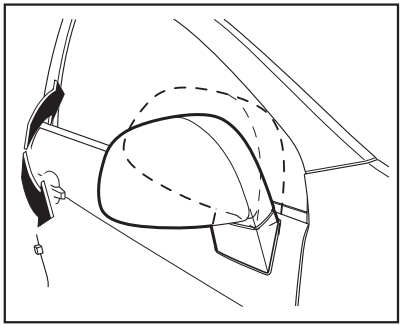
To adjust the mirrors, turn the ignition to **ACC** or **ON**:

- Rotate the switch to the right to adjust the driver side mirror.
- Rotate the switch to the left to adjust the passenger side mirror.

- Push the sides of the switch to adjust the mirror angles.
- Rotate the switch to the centre to disengage.

| Caution |
| --- |
| Do not adjust the mirrors while driving.<br>Moving the mirrors forcibly by hand can damage the electric mirror drive system. |

## Folding mirrors

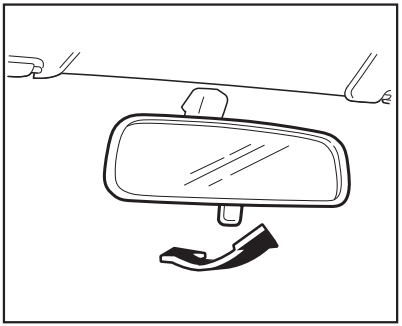


When the vehicle is parked the mirrors may be folded flat against the side of the vehicle.

| Caution |
| --- |
| The folding mirrors are a convex shape, to provide a wider view. Objects seen in these mirrors are closer than they appear. |

# Interior mirrors

## Rear view mirror

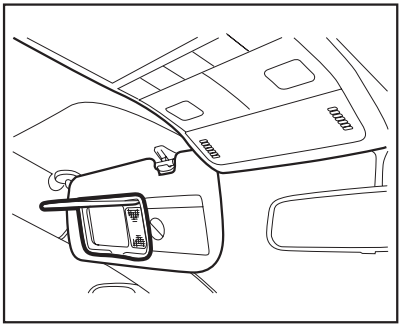


Adjust the rear view mirror by moving right or left, up or down.

To reduce headlamp glare at night from following vehicles, pull the lever towards the rear of the vehicle.

For daylight operation, push the lever towards the front of the vehicle.

## Sun visor mirrors

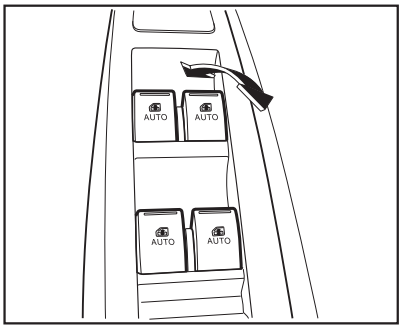


The mirrors are located on the rear side of the sun visors and include a ticket holder.

To view the mirror, pull the cover up from the lower edge.

# Windows

## Power windows




- The switches for the power windows are located in the driver's door.
- The front switches are for the front windows and the rear switches are for the rear windows.
- Individual switches are also located on the front passenger's door and on the rear doors.
- The switches operate when the ignition is in the **ACC** or **ON** position.

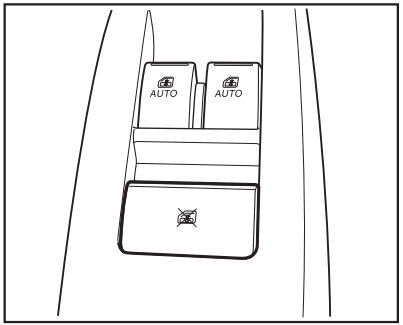
The windows have an auto down two stage function.

- To lower the window, press the switch down firmly, then release.

  The window will automatically open fully.
- To stop the window while it is opening, press the switch again.
- To raise the window, pull the switch up and hold.
- To stop the window, release the switch.

**Note**
The rear windows do not open fully.

### Lock switch




The lock switch for the power windows is located in the driver's door.

- Press the switch to prevent operation of passenger windows.
- Press the switch again to enable operation of passenger windows.

**Note**

- Windows can still be operated from the driver's door.
- When the ignition key is turned to **LOCK** or removed, the windows can be operated for up to 10 minutes or until the driver's door is opened.

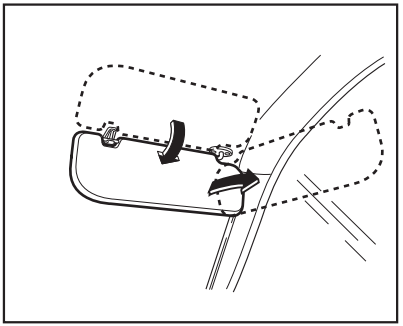
**⚠Warning**

To assure the safety of children and others, ensure that all passengers have their hands, etc. clear of the windows.

Remove the key when leaving the vehicle, to avoid unintentional window operation by children.

Ensure the lock switch has been set to the activated position when children are in the vehicle.

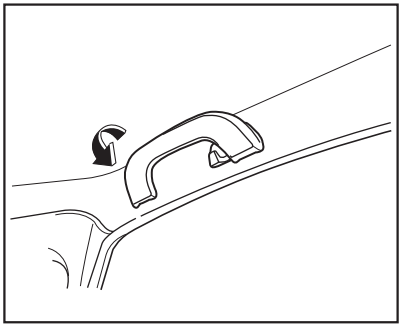
## Sun visors



The sun visors may be adjusted to two positions:

1. Fold the sun visor down towards the front of the vehicle.
2. Unclip the inner hinge and fold the sun visor outwards over the side window.

## Assist grips



Assist grips are located above the doors to assist passengers getting in and out of the vehicle.

The assist grips above each rear door include a coat hook.

# Seats, restraints

Head restraints ..... 25
Front seats ..... 26
Rear seats ..... 27
Seat belts ..... 28
Airbag system ..... 31
Child restraints ..... 35

## Head restraints

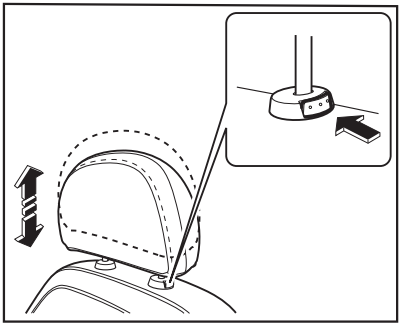
**⚠Warning**

Do not drive the vehicle with the head restraints removed, as it increases the risk of a neck injury in the event of an accident.

Do not attempt to adjust the driver's head restraint while the vehicle is in motion. This could cause a loss of control of the vehicle.

The head restraint safety feature is not intended to rest the head upon. It is solely for the reduction of whiplash neck movement in an accident involving the vehicle.

The centre of the head restraint should be at eye level, never at neck level.



To adjust the height:

1. Push the button in.
2. Pull the head restraint up or push the head restraint down.

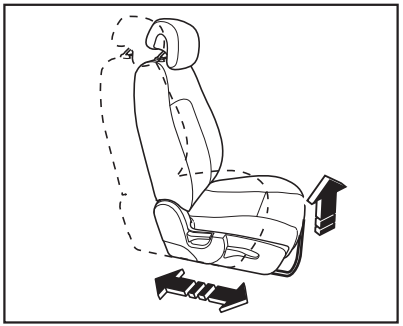
# Front seats

## Seat position

### Seat adjustment

The vehicle may have the following levers and switches for seat adjustment.

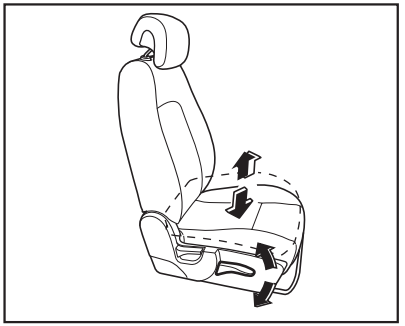
**Forwards/backwards**



Move the seat forwards or backwards by lifting the bar at the front and sliding the seat.

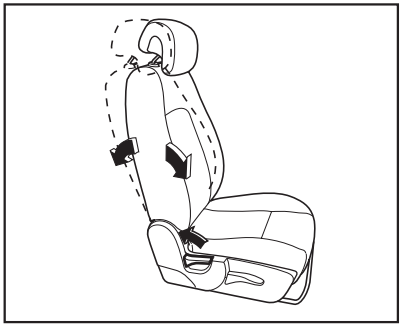
Release the bar to re-engage the latch.

**Up/down**



Raise or lower the seat cushion by moving the lever up or down.

**Recline**

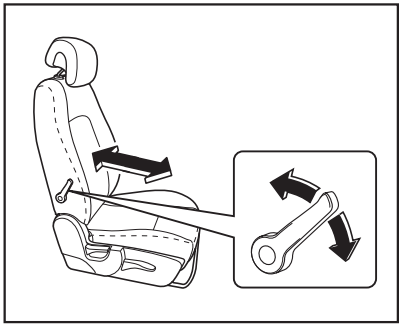


Adjust the seatback by lifting the lever.

**⚠Warning**

To avoid reducing the effectiveness of seat belts, seatbacks should only be upright or at most semi-reclined when the vehicle is moving.

**Lumbar**



Adjust the lumbar support by rotating the switch clockwise or anticlockwise.

**⚠Warning**

Do not adjust the driver's seat when the vehicle is moving, as the seat could move suddenly, causing the driver to lose control.

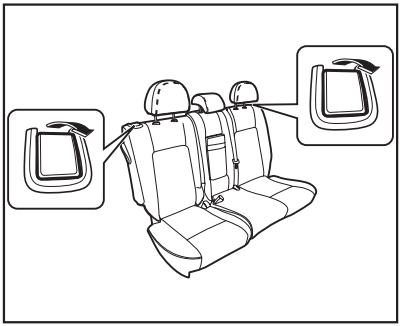
## Rear seats

**⚠Warning**

Do not press the release button on the top of the seatback while the vehicle is moving. This could cause damage or injuries to the occupants.

Do not allow passengers to sit on the folded seatbacks while the vehicle is in motion. Unrestrained luggage or passengers on a folded seatback could be thrown within or ejected from the vehicle in a sudden stop or accident.

## Seatback folding



To fold individual seatbacks:

1. Ensure all three seat belts are unbuckled and the front seatbacks are not reclined.
2. Push the head restraint forward fully. See Head restraints on page 25.
3. Lift the lever and fold the seatback forwards.

To unfold the seatbacks:

1. Lift the seatback and push it to it's original position.
2. Ensure the seatback is securely latched by pulling it forwards and backwards.
3. Push the head restraint rearwards to its original position.

# Seat belts

## How to wear seat belts properly

**⚠Warning**

Seat belts are designed to bear upon the bony structure of the body, and should be worn low across the front of the pelvis or the pelvis, chest and shoulders, as applicable; wearing the lap section of the belt across the abdominal area must be avoided.

Seat belts should be adjusted as firmly as possible, consistent with comfort, to provide the protection for which they have been designed. A slack belt will greatly reduce the protection afforded to the wearer.

Belts should not be worn with straps twisted.

Each belt assembly must only be used by one occupant; it is dangerous to put a belt around a child being carried on the occupant's lap.

No modifications or additions should be made by the user which will either prevent the seat belt adjusting devices from operating to remove slack, or prevent the seat belt assembly from being adjusted to remove slack.

## Three point belt

### Fitting

The belt should not be twisted. It should lie flat and fit firmly across your hips.

1. Pull the metal tongue across your body.
2. Clip it into the buckle.

   When the metal tongue is locked safely into place, you will hear a click.

**⚠Warning**

The tongue must engage and lock inside the buckle for the seat belt to function properly.

3. Give a gentle pull on the buckle to ensure full engagement.
4. Settle the belt at the hip.
5. Run your hand under the sash from hip to shoulder.

The belt should fit comfortably. Any extra belt length retracts automatically.

**Note**

For your safety, wear the lap section of the seat belt as low as possible on your hips, not on your waist or abdomen.

The emergency-locking retractor belt allows you to move while the vehicle is travelling normally, but locks immediately on fast braking, impact with a solid object or any quick movement by the wearer.

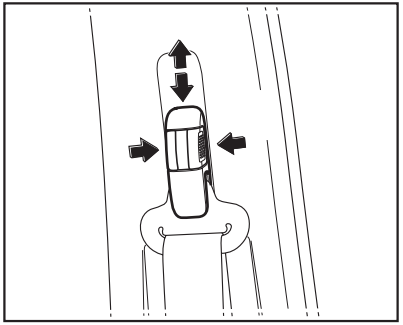
### Removing

1. Press the release button on the buckle.
2. Allow the belt to retract.
3. Check that it fully retracts without twisting or turning.

### Shoulder height adjust

**⚠Warning**

Do not attempt to adjust the seat belt height while driving. It could cause loss of control of the vehicle.



Adjust the position of the seat belt anchor to suit the height of the wearer.

1. Squeeze the release buttons.
2. Move the adjuster up or down as required.
3. Lock the safety belt anchor in position.
4. Ensure that the anchor clicks into position.
5. Adjust the height so the seat belt passes over the shoulder and rests against the shoulder.

   It must not pass over the neck or upper arm.

### Seat belt use during pregnancy

Seat belts work for everyone, including pregnant women. Like all occupants, they are more likely to be seriously injured if they do not wear a seat belt.

A pregnant woman should wear a three point belt with the lap portion of the belt worn as low as possible below the rounding of their stomach, throughout the pregnancy.

## Seat belt care

**⚠Warning**

Care should be taken to avoid contamination of the webbing with polishes, oils and chemicals, and particularly battery acid. Cleaning may safely be carried out using mild soap and water. Never use bleach.

The belt should be replaced if webbing becomes frayed, contaminated or damaged.

### Maintenance of seat belts

- Check the seat belts regularly.
- Check the buckle and retractors mechanism.
- Maintenance of seat belts is part of the scheduled maintenance. Refer to the Service/Warranty Booklet.

### Replacing seat belts after a crash

**⚠Warning**

It is essential to replace the entire assembly after it has been worn in a severe impact, even if damage to the assembly is not obvious.

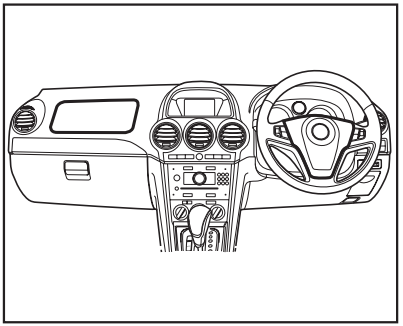
## Airbag system

**⚠Warning**

Airbags are part of the Supplemental Restraint System (SRS) as they assist, but do not replace seat belts. Airbags do not deploy in every accident. Various factors dictate whether they deploy including speed, angle of collision and object hit. Airbags are not designed to inflate in all collisions. Seat belts must be worn by all passengers whenever the vehicle is moving.

Airbags inflate with great force. If you are too close to an inflating airbag it may cause injury. Seat belts help keep you in position for airbag inflation in the event of a collision.

## Front airbag system



The front airbag system consists of one airbag in the steering wheel, and one in the dashboard on the passenger side. These are identified by the word **AIRBAG**.

A label is attached under the sun visor on the passenger side.

**⚠Warning**

The horn pad must not be covered with adhesive or any other material.

The driver should adjust the seat as far rearward as possible while still maintaining control of the vehicle.

The wording **AIRBAG** above the glove box and a label attached under the sun visor indicate that a passenger airbag is fitted.

**⚠Warning**

Do not place any objects on or over the dashboard or between an airbag and yourself.

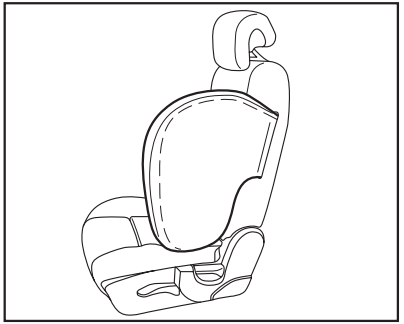
Do not hang anything from the sun visor or mirror.

Passengers must not rest their feet on the dashboard.

Front airbags will inflate in certain severe frontal or near frontal impacts. Front airbags are not designed to inflate if the vehicle is struck from the side, rear or in rollovers. Always wear a seat belt.

## Side impact airbags (SIAB)

SIAB are stored in the sides of the front seats, the side closest to the door.



**Note**

SIAB deploy in most, but not all, severe side impacts.

Because there is limited time available to detect some side impacts, it is not possible to deploy the SIAB in all serious accidents.

A SIAB will deploy in certain severe side impacts. SIAB are not designed to inflate if the vehicle is struck from the front, rear, or in rollovers. Always wear a seat belt.

**⚠Warning**

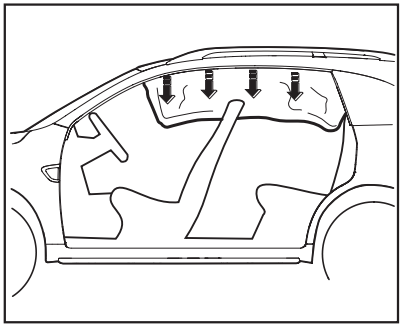
Do not fit unauthorised seat covers as they may impair the deployment of the Side Impact Airbags (SIAB).

Do not position your body or any object (including pillows) between front seats and doors.

Do not lean on, or sleep against, the door. Always sit centrally in the seat.

Always wear a seat belt.

## Curtain airbag system



Curtain airbags are stored in the roof, just above the front and rear doors. The labels are on both door lock pillars.

**Note**

Curtain airbags:

- Deploy in most, but not all, severe side impacts.
- Only deploys on the side of the vehicle that is struck.
- Do not deploy in all serious accidents.

  There is limited time available and it is not possible to detect some side impacts.
- Are not designed to inflate if the vehicle is struck from the front, rear, or in rollovers. Always wear a seat belt.

**⚠Warning**

Do not position your body or any object (including pillows) in the area in which the airbag inflates.

There must be no objects in the area in which the airbag inflates.

Use the hooks above the doors only to hang up light articles of clothing.

Do not place any objects in the pockets of the hanging items.

Do not hold onto the assist grips (above the doors) while seated in the vehicle.

Do not lean on, or sleep against the front or rear doors. Always sit centrally in the seat. Always wear a seat belt.

## Seat belt pretensioners

Front seat belt pretensioners are part of the Supplemental Restraint System (SRS).

- In certain severe collisions the seat belts are tightened by the seat belt pretensioners.
- When activated illuminates on the instrument panel.

  The pretensioner system needs to be replaced by a Holden Dealer.
- The seat belts remain operational but not the pretensioners.
- If illuminates at any other time, contact a Holden Dealer immediately.
- See Airbag and Supplemental Restraint System (SRS) light on page 52.
- Always wear a seat belt.

## Servicing

The SRS system needs to be checked by a Holden Dealer if:

- The steering wheel or dashboard area is scratched, cracked or damaged.
- The head lining side panels are damaged.

**Note**

- Do not tamper or interfere with the airbag system.

  Airbag system failure or accidental deployment may occur.
- Do not touch any airbag system components or wires.

  The wires can be identified by yellow tape wrapping, yellow tubing or yellow connectors.
- It is recommended that any work to the airbag system, electrical system, dashboard area, steering column and steering wheel be carried out by a Holden Dealer.

- Scrapping a vehicle that has an uninflated airbag can be hazardous. Contact a Holden Dealer for assistance.

## Adding equipment

### Roo/nudge bar

**⚠Warning**

Fitment of roo or nudge bars is not recommended as it may affect crash performance, airbag performance and engine cooling.

# Child restraints

If travelling with children in the vehicle, child restraints are required.

**⚠Warning**

WARNING – EXTREME HAZARD

Do not use a rearward facing child restraint on a seat protected by an airbag in front of it.

The child could be seriously injured if the airbag inflates, as the child's head would be very close to the inflating airbag.

Remember that it is safest for children to be seated in the rear seats.

WARNING AVERTISSEMENT ADVERTENCIA
AIR BAG
DO NOT place rear-facing child seat on this seat with airbag
DEATH OR SERIOUS INJURY can occur.
Ne pas placer de siège enfant "dos à la route"sur le siège passager avant équipé d'un airbag.
Risque sérieux de MORT OU DE BLESSURES GRAVES.
NO DEBE colocar de espaldas asientos para bebes en esta silla equipada con bolsa de aire
MUERTE O TRAUMA SERIO pueden ocurrir.

**⚠Warning**

This manual provides you with general information concerning child restraints only.

The driver is required by law to ensure that passengers are suitably restrained. In States and Territories of Australia and New Zealand, specific laws exist which require children to be seated in approved child restraints.

Holden strongly recommends that you refer to your specific State or Territory regulations to determine which child restraint is suitable for your child.

**⚠Warning**

Always ensure that the seat belt fits firmly around the child restraint.

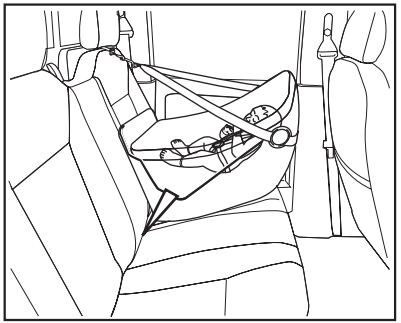
If a child cannot see out of the window, do not raise him/her by means of an ordinary cushion. It will not stay in place in a collision and the child can slip out of the straps and become entangled.

Children should be restrained at all times when travelling in a vehicle.

**⚠Warning**

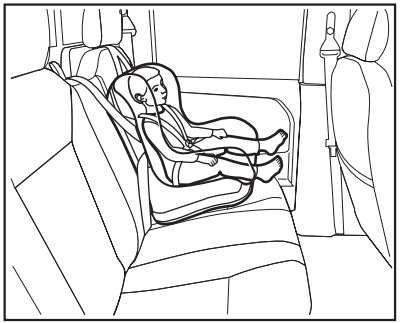
Always follow the child restraint manufacturer's fitting instructions when installing a child restraint into the vehicle.

## Infants



Rearward facing infant capsules are designed so that in the event of a collision, impact forces will be evenly spread over the baby's back, with minimal jarring to the vulnerable head and neck area.

## Young children



Forward facing child seats are for use when the child is able to sit and easily hold their head upright.

It is also possible to purchase convertible seats which can be used as a rearward facing infant restraint or converted to a forward facing child seat.

## Booster seats

Booster seats are for when children outgrow a typical forward facing child seat, but are still too small for three point seat belts.

## Older children

A child should use a normal three point seat belt only when:

- They can sit against the back of the rear seat with knees bent comfortably at the edge of the seat.
- The lap belt rests low and snug across the hips, not across the stomach.
- The sash belt is centred on the shoulder and chest.
- They are able to stay seated like this for the entire trip.

## Where to put the restraint

**⚠Warning**

Child restraint anchorages are designed to withstand only those loads imposed by correctly fitted child restraints. Under no circumstances are they to be used for adult seat belts, harnesses, or for attaching other items or equipment to the vehicle.

Only child restraints that have clips to attach to the vehicle's anchorage fitting (as shown in the following illustrations) are to be used. Earlier types of child restraints may not attach securely to this type of anchor.

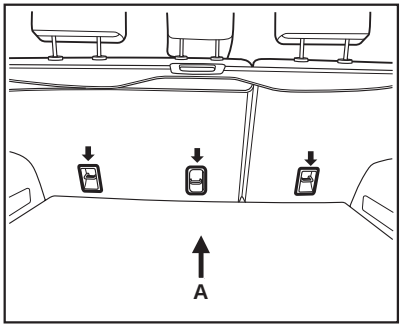
Use only Standards Australia and New Zealand approved child restraints and harnesses. Only purchase a child restraint which carries the appropriate Standards Australia sticker of approval.

Where legally allowable, you may install a forward-facing child restraint in the front seat, but always move the passengers seat as far back as it will go.

Remember, it is safest for children to be seated in the rear seat.

## Child restraint installation locations

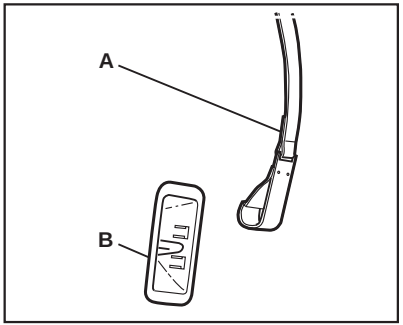
### Anchor points




A. Front of vehicle

Tether anchors are located on the rear of the rear seats.

## Attaching the child restraint




1. Place the child restraint on the rear seat.
2. Attach the child restraint to the anchors following the instructions supplied with the child restraint.
3. Attach the clip on the child restraint tether strap (A) to the tether anchor (B), ensuring there are no twists in the tether strap.

**Note**

Positioning a child restraint in front of an adjustable head restraint:

- If using a dual tether, route the tether around either side of the head restraint.
- If using a single tether, raise the head restraint and route the tether under the head restraint between the two mounting posts.

Tighten the tether straps following the instructions supplied with the child restraint.

# Storage

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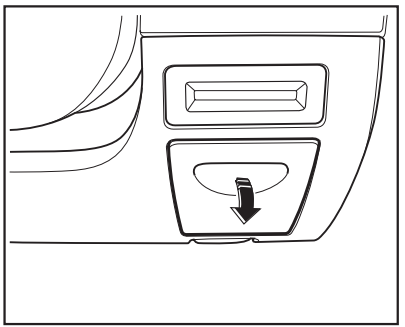
# Storage compartments

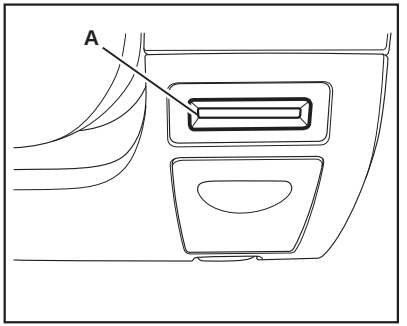
## Coin storage



The coin storage compartment is located on the driver side of the dashboard.

- To open, pull the handle towards you.

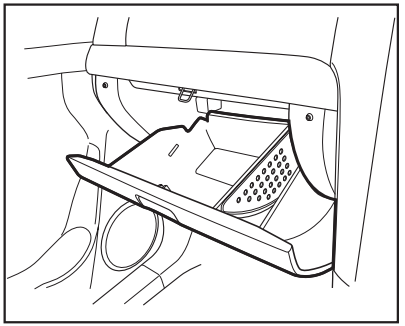
## Card holder




The card holder is located on the driver side of the instrument panel.

- Insert a card into the slot (A).

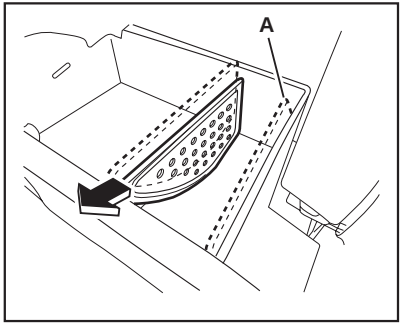
## Glove box



The glove box is located on the passenger side of the dashboard.

- To open, pull the handle towards you.
- To close, push the lid firmly back into place to engage the latch.

### Inner partition



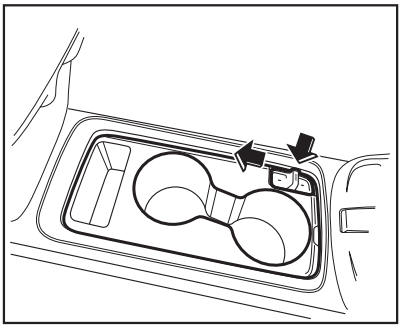

The inner partition may be removed to store larger items.

- Store the partition at the side of the glove box (A).

## Cup holders

Cup holders are located between the two front seats and within the rear armrest.

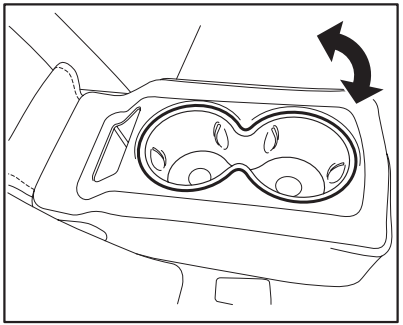
### Front cup holders



The front cup holders are located above a storage bin.

- To open, push the lever down and slide rearwards.

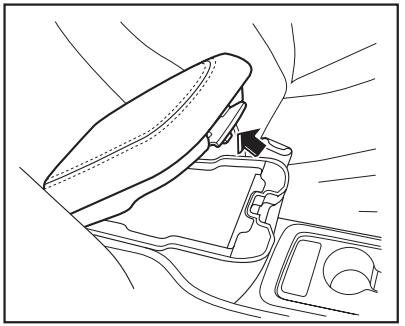
### Rear armrest cup holders



The rear cup holders are located between the two second row seats, within the armrest.

- To open, pull the strap downwards.

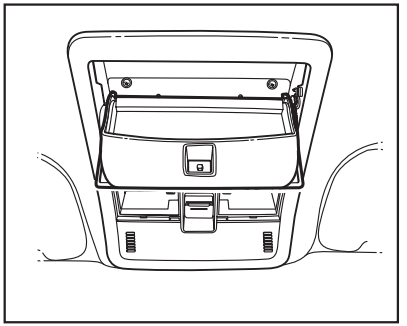
## Front centre console



The centre console bin is located between the two front seats.

- To open the lid, pull up on the lever and lift upwards.
- To close, lower the lid and push down to engage the latch.

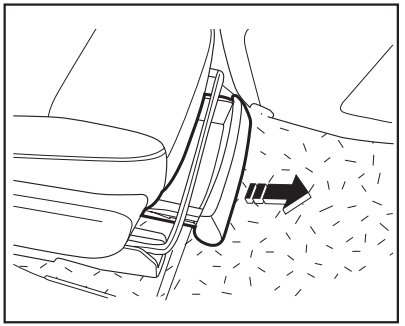
## Sunglasses holder



The sunglasses holder is located in the roof and is designed to accommodate one pair of sunglasses.

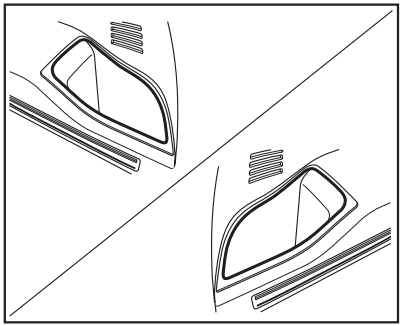
- To open, push in the rear of the lid and release.
- To close, push the lid upwards and press in the rear of the lid to engage the latch.

## Underseat storage



- To open, pull upwards on the end of the tray and slide forwards.
- To close, push the tray back under the seat to the original position.

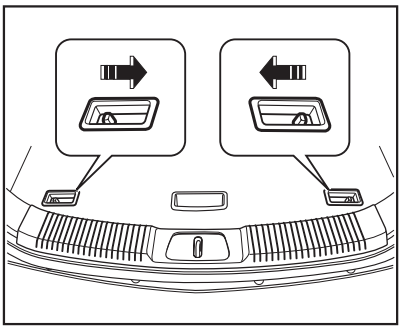
## Rear storage



Floor side trays are located at the sides of the rear load area.

# Additional storage features

## Rear floor storage cover

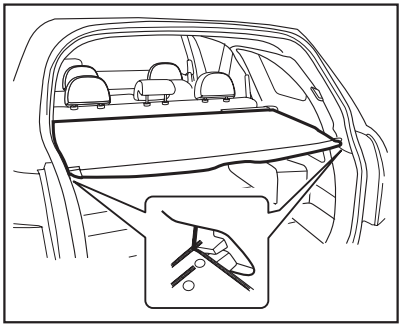


Storage compartments are located under the floor of the load area.

To gain access:

1. Release the two latches.
2. Lift the floor panel upwards using the central handle.
3. Unclip the hook and attach to the tailgate opening, to hold in place.

## Cargo cover



To cover:

1. Pull the handle towards the rear of the vehicle.
2. Latch on both sides.

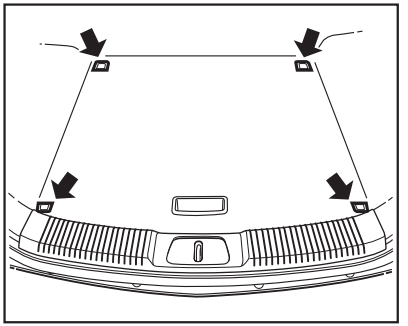
To retract:

1. Unlatch the blind by pulling rearwards.

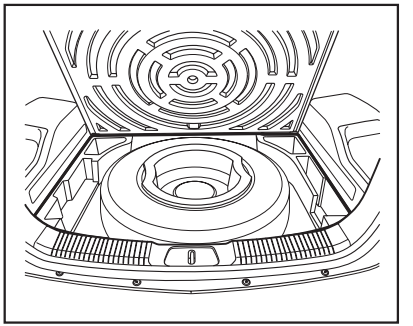
   The blind will roll up automatically.

**Note**
Do not place objects on top of the cargo cover.

## Cargo tie downs



Tie downs are located on the storage compartment floor to enable loads to be secured in position.



**Note**
To avoid any damage, do not allow items to extend above the top of the storage compartment, .

# Instruments and controls

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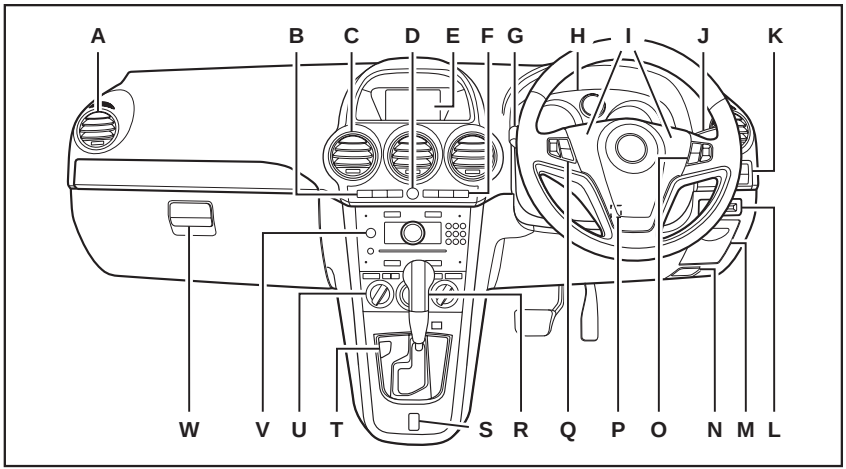
## Instrument panel overview



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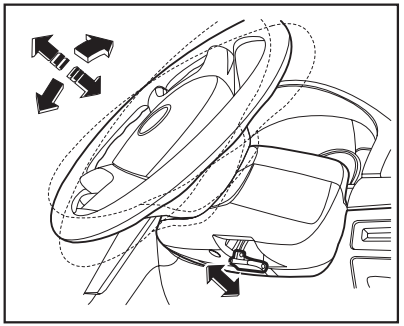
# Controls

## Steering wheel adjustment

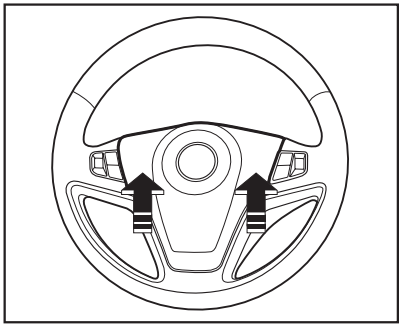
**⚠Warning**

Do not attempt to adjust the steering wheel while driving.



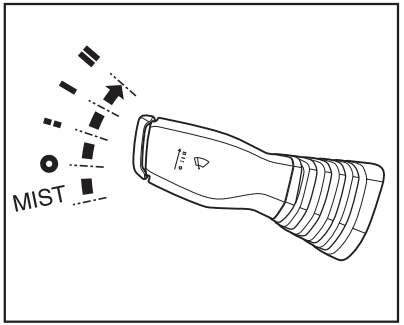
1. To unlock, move the lever down.
2. To adjust, move the steering wheel up, down, closer or away.
3. To lock, move the lever up. Ensure the steering wheel is locked in position before driving.

## Horn



Press the horn pad on either side.

## Windscreen wipers/washers




The wipers/washers operate with the ignition key in the **ON** or **ACC** positions:

**MIST**: Wipers cycle while the lever is held down

**O**: Off

**--**: Adjustable wiping cycle

The wiper frequency is increased as vehicle speed increases.

To set the wiper frequency:

1. Move the lever to MIST.
2. Wait the desired time between 1 and 10 seconds.
3. Move the lever to --.

   The set frequency remains stored until it is changed or the ignition is turned off.

**I**: Continuous wipe, slow speed.

**II**: Continuous wipe, fast speed.

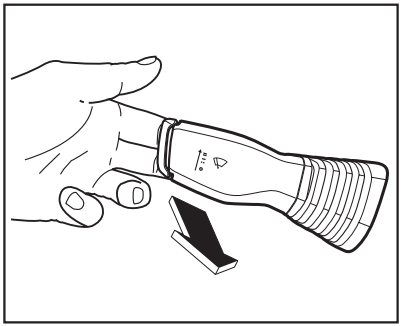
**⚠Warning**

Switch the wipers off before entering a car wash.

**Note**

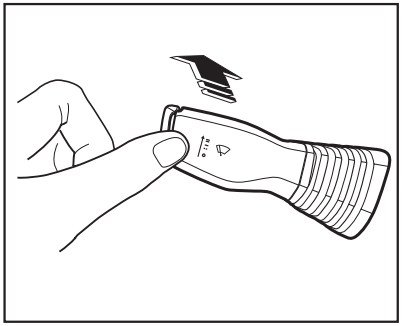
Clear ice and snow from the wiper blades before using them.

## Washer fluid



- Pull the lever towards the rear of the vehicle.
- Washer fluid is sprayed onto the windscreen.
- The wipers will operate for three cycles or until the lever is released.
- For more wash cycles, pull the lever towards the rear of the vehicle and hold.

## Rear wiper and washer

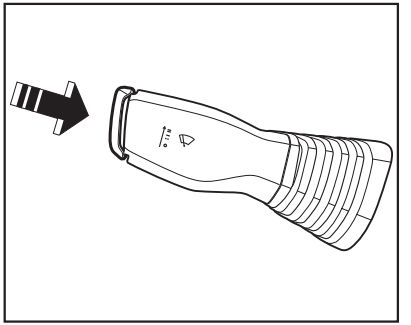


To activate the wipers:

- Push the lever towards the front of the vehicle.

To turn the wipers off:

- Pull the lever toward the rear of the vehicle.



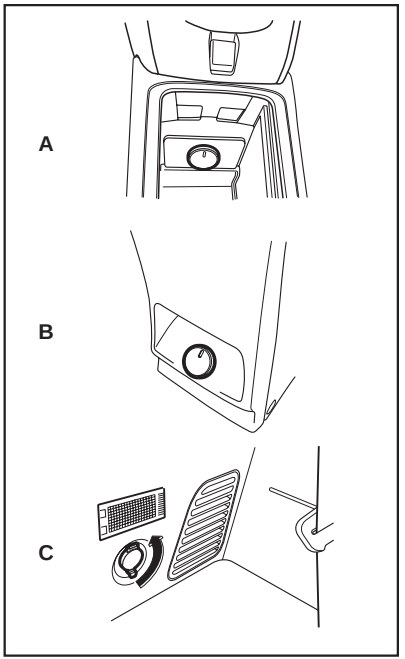
To spray washer fluid onto the rear windscreen:

- Push the button on the end of the lever.

  When released, the wipers continue to wipe for three wipes.

## Power outlets

The power sockets operate with the ignition key in the **ON** or **ACC** positions.




A power socket is located in the storage bin, below the front cup holders (A), on the rear of the centre console (B) and on the driver side of the rear load area (C).

### Connecting a device

1. Flip the socket cover open.
2. Follow the installation instructions that are included with the device.
3. Cover the socket with the protective cap when not in use.

   These circuits are protected by a fuse and have a maximum current load.

   **Note**
   Do not hang heavy objects from a power outlet.

**Caution**

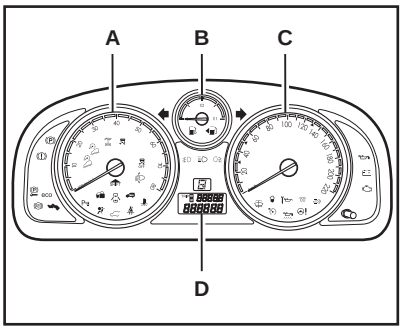
When using all accessory power sockets, the total maximum electrical load must not exceed 10 amps at 12 volts.

Always switch off any electrical equipment when not in use.

Leaving electrical equipment on for extended periods with the engine off will drain the battery.

# Warning lights, gauges and indicators

## Instrument panel




A. Tachometer
B. Fuel gauge
C. Speedometer
D. Odometer and tripmeter

## Tachometer

Tachometer (A), shows engine speed in thousands of revolutions per minute (RPM).

The red zone indicates critical engine speed.

**⚠Warning**

Never operate the vehicle with the tachometer needle in the red zone. Serious engine damage may occur.

## Fuel gauge

Fuel gauge (B), shows the level of fuel in the fuel tank when the ignition is on (**1/1** = full, **O** = empty).

For refuelling instruction, see Fuel on page 121 and Capacities on page 181.

**Note**
Avoid allowing the tank to run empty as damage to the catalytic converter may occur.

## Speedometer

Speedometer (C), shows vehicle speed in kilometres per hour (km/h).

## Odometer and tripmeter

Odometer and tripmeter (D):

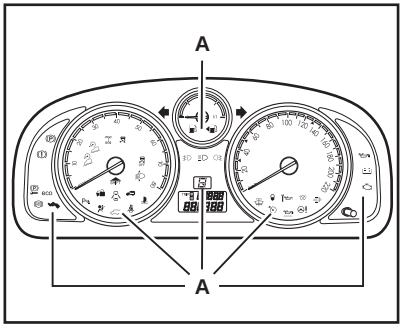
The odometer records the distance travelled since the vehicle was built.

The tripmeter records the distance travelled on a journey.

- Two different trips (TRIP A and TRIP B) can be recorded at the same time.
- The reset button is located at the lower right of the instrument panel.
- To change the display between, TRIP A and TRIP B, turn the ignition key to **ON** and push the tripmeter reset button.

  Press and hold to reset to zero.

## Control indicators




The following warning lights and reminders (A) may appear on the instrument panel.

They show as illuminated icons.

## Driver's seat belt reminder light

- When the ignition key is turned to **ON**, illuminates.

If the seat belt is not fastened after the engine has been started:

- The light will flash for approximately 90 seconds, then stay illuminated until the driver's seat belt is fastened.
- When the vehicle speed is above 22 km/h, the light will flash again and a chime will sound for approximately 90 seconds.

  The light will stay illuminated until the driver's seat belt is fastened.

If the driver's belt is buckled, neither the chime or the light will illuminate.

## Front passenger's seat belt reminder

The front passenger seat belt reminder button is located below the centre air vents on the dashboard.

- When the ignition key is turned to **ON**, illuminates on the button, for approximately 4 seconds.
- The light extinguishes if the front passenger seat is not occupied.

If the front passenger seat is occupied when the engine is started:

- The light will flash for 90 seconds then illuminate until the front passenger's seat belt is fastened.

## Airbag and Supplemental Restraint System (SRS) light

- When the ignition key is turned to **ON**, flashes several times.

If the lamp:

- Does not flash
- Stays on when the ignition key is turned to **ON**
- Stays on after several flashes
- Flashes while driving
- Remains on while driving

  The airbag system or seat belt pretensioner system may not function correctly, especially in an accident.

  Contact a Holden Dealer immediately.

## Battery warning light

- When the ignition key is turned to **ON**, illuminates until the engine is started.
- If the light illuminates when driving, contact a Holden Dealer.

## Malfunction indicator lamp

illuminates:

- When the ignition key is turned to **ON**:

  If the light remains on or illuminates while driving, there may be a malfunction in the emission control system. Contact a Holden Dealer.
- To indicate that there is a malfunction in the Diesel Particle Filter (DPF). Contact a Holden Dealer.
- See Emission control system on page 131.

**⚠Warning**

If you keep driving the vehicle with the MIL illuminated, after a while, the emission control system may not work as well, fuel economy may not be as efficient and the engine may not run as smoothly. This could lead to costly repairs.

## Service Vehicle Soon (SVS) light

- When the ignition key is turned to **ON**, illuminates for approximately 4 seconds.
- If the light remains on, contact a Holden Dealer.

**⚠Warning**

If you keep driving the vehicle while the SVS light is on, damage may result in the non-emission related components or related sub systems. This could lead to costly repairs.

## Brake warning light

- When the ignition key is turned to **ON**, illuminates for approximately 4 seconds.
- If the light remains on or illuminates, there is a brake problem. Contact a Holden Dealer.

**⚠Warning**

Driving while is on may cause injury to yourself and others. Have the brake system checked immediately if this occurs.

## Park brake light

- illuminates when the park brake is applied or briefly when the ignition key is turned to **ON**.
- If does not illuminate, contact a Holden Dealer.
- If flashes after the park brake is released or while driving, contact a Holden Dealer.

## Press brake pedal light

If the brake pedal is not applied when the EPB is released:

- A chime will sound
- will illuminate
- See Electric Park Brake (EPB) on page 110.

## Park brake warning light

- When the ignition key is turned to **ON**, illuminates for a short time.
- If does not come on or illuminates contact a Holden Dealer as soon as possible.

## Antilock Brake System (ABS) light

- When the ignition key is turned to **ON**, (ABS) illuminates for approximately 4 seconds.

If the light:

- Does not flash or stays on when the ignition key is turned to **ON**
- Stays on after several flashes
- Flashes while driving
- Stays on continuously while driving

  Carefully stop the vehicle and turn off the engine.
- If the light remains on while driving, contact a Holden Dealer immediately.

**Note**

- The vehicle's brakes will still operate but without the assistance of the ABS.
- See Antilock Brake System (ABS) on page 109.

## Shift select light

- illuminates to show the position of the shift lever.
- See Automatic transmission on page 104.

## All Wheel Drive system (AWD) light

The vehicle may have an AWD system.

- flashes when the AWD system is temporarily disabled.
- If the light remains on, contact a Holden Dealer.
- See Drive systems on page 109.

## Descent Control System (DCS) light

- illuminates green on the instrument panel when the DCS is activated.
- The green light flashes while DCS is active.
- The amber light indicates the DCS is not ready or there is a malfunction in the system. Contact a Holden Dealer.
- See Descent Control System (DCS) on page 114.

## Speed Sensitive Power Steering (SSPS) light

- When the ignition key is turned to **ON**, illuminates and extinguishes when the engine is started.

If the light:

- Does not illuminate
- Does not extinguish
- Illuminates while driving

  Contact a Holden Dealer as soon as possible.
- See Speed Sensitive Power Steering (SSPS) on page 98.

## Park Assist (PA) light

- If P illuminates while driving, contact a Holden Dealer.

When a trailer lighting plug is connected to the vehicle:

- PA will be deactivated.
- PA will activate again when the plug is removed.
- See Park Assist (PA) on page 118.

## Electronic Stability Control (ESC) light

- When the ignition key is turned to **ON**, illuminates for approximately 4 seconds.
- If the light flashes while driving, the ESC is actively helping the vehicle with road grip and stability.
- If the light illuminates or does not extinguish while driving, contact a Holden Dealer immediately.

## Electronic Stability Control (ESC) off light

- When the ignition key is turned to **ON**, illuminates for approximately 4 seconds.

To turn the ESC off:

1. Press on the dashboard.

   illuminates on the instrument panel.
- For more information, see Electronic Stability Control (ESC) on page 112.

## Engine coolant temperature light

- When the ignition key is turned to **ON**, illuminates for approximately 4 seconds.

If the light illuminates while driving, the engine coolant temperature is excessively hot:

- Stop the vehicle as soon as it is safe to do so.
- See Engine overheating on page 141.
- If the light remains on, contact a Holden Dealer.

**⚠Warning**

Do not continue driving with the temperature gauge needle in the red area. The engine is too hot.

Continued operation of an overheated engine will result in severe engine damage. See Engine overheating on page 141.

## Preheating system light

(Diesel engines)

- When the ignition key is turned to **ON**, illuminates and will stay illuminated until the engine is sufficiently warmed.
- The preheating system switches on only if the outside temperature is low.
- See Starting the engine on page 100.

## Diesel particle filter (DPF) light

(Diesel engines)

illuminates or flashes yellow.

The diesel particle filter requires cleaning. See Diesel Particle Filter (DPF) on page 132.

### Illuminates

The diesel particle filter requires cleaning. Start the cleaning process as soon as possible. See Cleaning process on page 133.

### Flashes

The previous cleaning cycles have been interrupted prior to completion. Start the cleaning process immediately to avoid damage to the engine. See Cleaning process on page 133.

The light extinguishes as soon as cleaning is complete.

## Engine oil pressure light

- When the ignition key is turned to **ON**, illuminates for a short time.

If the light illuminates while driving:

- The oil pressure is dangerously low.

  Stop the vehicle as soon as possible and check the engine oil level.
- See Engine oil on page 137.
- Do not drive the vehicle with the light illuminated. Contact a Holden Dealer.

## Engine oil level light

- When the ignition key is turned to **ON**, illuminates for approximately 4 seconds.

If the light illuminates while driving:

- The oil level is dangerously low.

  Stop the vehicle as soon as possible and check the engine oil level.
- See Engine oil on page 137.
- Do not drive the vehicle with the light illuminated. Contact a Holden Dealer.

## Change engine oil light

- When the ignition key is turned to **ON**, illuminates for approximately 4 seconds. If the light does not come on, contact a Holden Dealer.
- If the light illuminates continuously, an engine oil and filter change is required. Contact a Holden Dealer.
- See Engine oil life system on page 176.

## Low fuel light

- When the ignition key is turned to **ON**, illuminates for approximately 4 seconds.
- The light illuminates when the fuel tank is approaching empty.

  Add fuel as soon as possible.
- If diesel engines run empty, the fuel system must be bled. See Diesel fuel system bleeding on page 148.
- See Fuel types on page 123.

## Fuel economy light

- When the ignition key is turned to **ON**, eco illuminates for approximately 4 seconds.
- The light illuminates when the eco button on the centre console is pressed.
- See Fuel economy mode on page 106.

## Water in fuel filter light

(Diesel engines)

- When the ignition key is turned to **ON**, illuminates for approximately 4 seconds.
- When the water level in fuel filter is excessive, illuminates on the instrument panel:

  Contact a Holden Dealer immediately to have the fuel filter drained.
- The fuel filter will be drained when the vehicle is serviced. Refer to the Service/Warranty Booklet.

## Immobiliser light

- When the ignition key is turned to **ON**, illuminates for approximately 4 seconds.
- If the light remains on, contact a Holden Dealer.

## High beam light

- illuminates on the instrument panel when the headlamp high beam lamps are in use.
- See High/low beam on page 63.

## Front fog lamp light

- illuminates on the instrument panel when the lamps are in use.
- See Front fog lamps on page 64.

## Rear fog lamp light

- illuminates on the instrument panel when the lamps are in use.
- See Rear fog lamps on page 65.

## Turn signal light

- or flashes on the instrument panel when the lamps are in use.
- See Turn signals on page 64.
- See Hazard warning flasher on page 63.

## Cruise control light

- illuminates on the instrument panel when the cruise control has been set.
- The light extinguishes when cruise control is turned off.
- See Cruise control on page 116.

## Door ajar light

- illuminates when a door is open or not securely latched.

## Tailgate ajar light

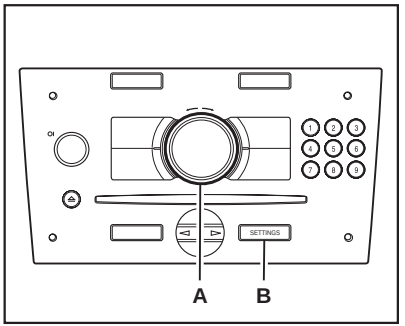
- When the ignition key is turned to **ON**, illuminates for approximately 4 seconds.
- The light illuminates when the tailgate is open or not securely latched.

# Information displays

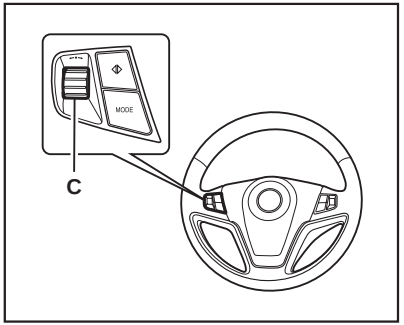
## Graphic Information Display (GID)

When the ignition key is turned to **ON**, adjust settings using:

- The multifunction switch on the audio system (A) or the switch on the steering wheel controls (C).



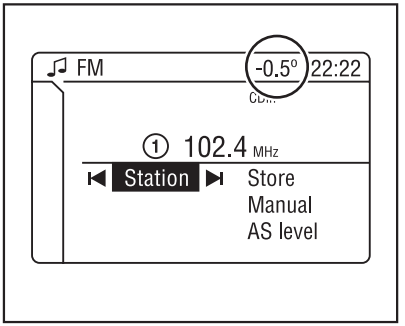

- Rotate (A) to navigate menu items.
- Press (A) to make a selection.




Scroll (C):

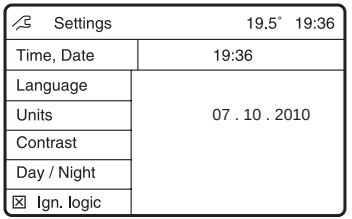
- Upwards for the previous menu item.
- Downwards for the next menu item.
- Press (C) to make a selection.

### Outside temperature



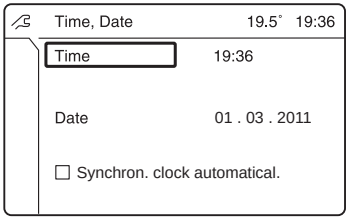

Indicates the temperature outside the vehicle.

## System settings



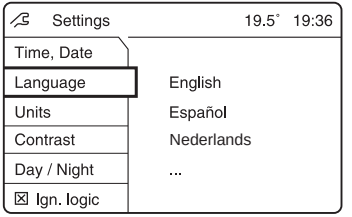

1. Rotate and press (A) to select .
2. Press **SETTINGS** (B) on the audio system.
3. Use (A) or (C) to make selections.

## Setting date and time




1. Press **SETTINGS** (B).
2. Rotate and press (A) or (C).
3. Select **Time, Date**.
   The menu will be displayed.
4. Rotate (A) or (C).
5. Select **Time** or **Date**.
6. Press (A) or (C) to highlight the value to be adjusted.
7. Rotate (A) or (C) to adjust the value.
8. Press (A) or (C) to confirm.
9. To return to the main menu press **SETTINGS** (B).

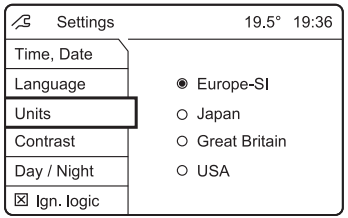
## Language selection




Language display is available for some functions.

1. Press **SETTINGS** (B).
2. Rotate and press (A) or (C).
3. Select **Language**.
   The available languages are displayed.
4. Select a language.
5. Press to highlight the desired language.
   The current selection is indicated by ►.
6. To return to the main menu press **SETTINGS** (B).

### Units of measure

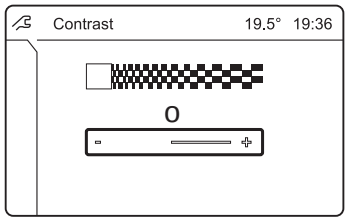



1. Press **SETTINGS** (B).
2. Rotate and press (A) or (C).
3. Select **Units**.
4. Select a country from the list displayed.

   **Note**
   For Australia and New Zealand select **Europe - SI**.

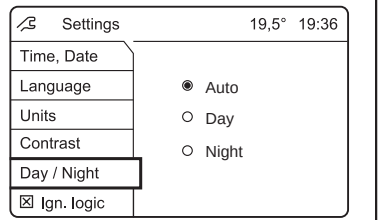
   The current selection is indicated by ⦿.
5. To return to the main menu press **SETTINGS** (B).

### Adjusting display contrast




1. Press **SETTINGS** (B).
2. Rotate and press (A) or (C) to select **Contrast**.
3. Rotate (A) or (C) to adjust the contrast.
4. To store and return to the main menu, press (A) or (C).

### Adjusting display mode




1. Press **SETTINGS** (B).
2. Rotate and press (A) or (C) to select **Day/Night**.
3. Rotate and press (A) or (C).

   Select from:

   - Automatic
   - Always day design
   - Always night design

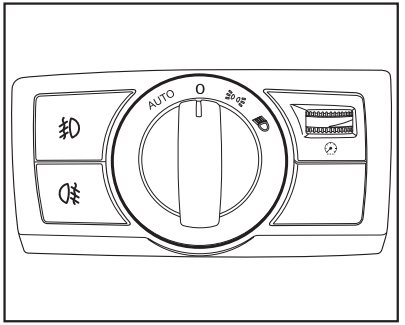
   The current selection is indicated by ⦿.
4. To return to the main menu press **SETTINGS** (B).

# Lighting

Exterior lighting ..... 62
Interior lighting ..... 65

# Exterior lighting

## Lamp control




**AUTO**: Parking lamps or headlamps will turn on automatically depending on the outside light.

**O**: Off.

: Parking lamps, number plate lamps and instrument panel lights illuminate.

The headlamps will not come on.

: Headlamps

: Front fog lamps

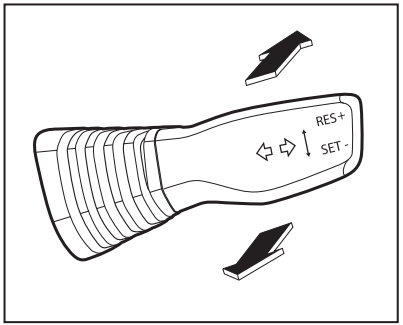
: Rear fog lamps

### Headlamps on reminder

If opening the driver's door with the ignition in **LOCK** and the lamp control in or position, a warning chime will sound.

If the lamp control is turned off then on again while the chime is sounding, the chime will be cancelled.

## High/low beam



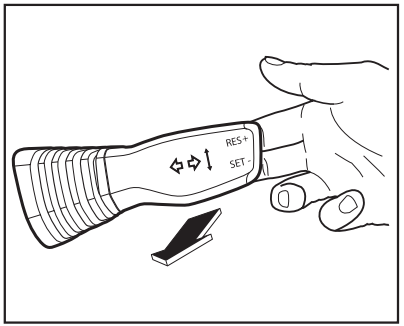

To activate high beam:

1. Rotate the lamp control to ≡D.
2. Push the lever towards the front of vehicle.

   The high beam indicator light ≡D illuminates on the instrument panel.

To return to low beam:

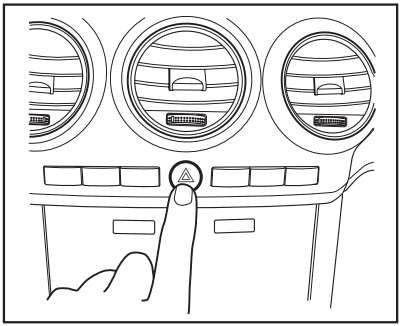
1. Pull the lever toward the rear of the vehicle.




To flash the high beam lamps:

- Pull the lever towards the rear of the vehicle.
- The high beam lamps can be flashed even if the headlamps are off.
- The lamps remain in high beam as long as the lever is held.

## Hazard warning flasher



Use the hazard warning flasher if the vehicle becomes a traffic hazard, day or night.

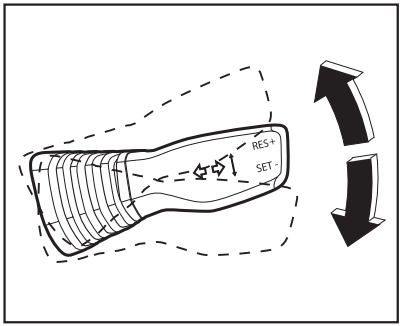
Press ⚠ to turn the hazard warning flasher on or off, when the ignition is in any position:

- Arrows on the instrument panel flash when the lamps are in operation.
- All turn signal lamps flash continuously.

**Note**

- Avoid stopping on the roadway if possible.
- Using hazard warning flashers while the vehicle is moving, is illegal in some States.
- The hazard warning flasher works when the ignition is in any position.

## Turn signals

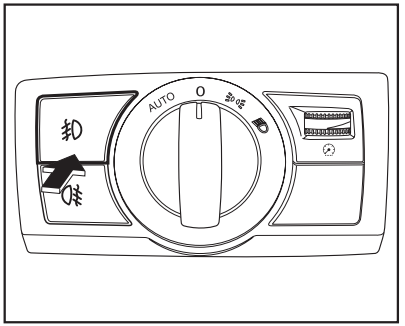



- Push the lever in the direction the steering wheel is turned.
- To signal a lane change, push and release the lever in the direction of the turn.

  The turn signals will flash three times.

  The lever will return to its original position when released.
- An arrow on the instrument panel flashes when the lamps are in operation.

## Front fog lamps




The front fog lamps provide extra illumination to the sides of the road and improve visibility in fog or snow.

To switch the front fog lamps on:

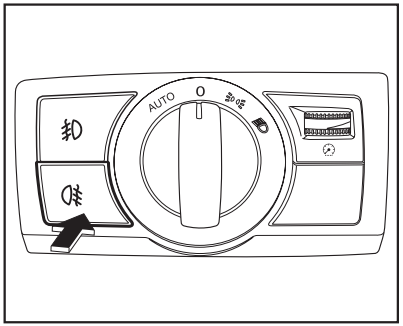
1. Rotate the lamp control to the ⫸ or ⫸ position.
2. Press ⫷D.

   The front fog lamp indicator light ⫷D illuminates on the instrument panel.

To switch the front fog lamps off:

3. Press ⫷D.

## Rear fog lamps




The rear fog lamps provide extra illumination at the rear of the vehicle, increasing the visibility of the vehicle to other drivers in fog or snow.

To switch the rear fog lamps on:

1. Rotate the lamp control to the position.
2. Press .

   The rear fog lamp indicator light illuminates on the instrument panel.

To switch the rear fog lamps off:

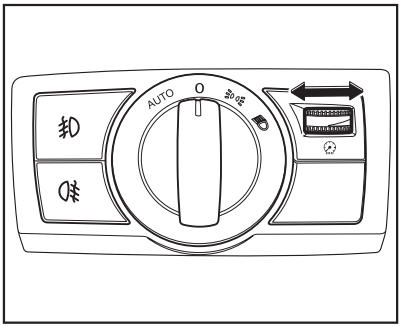
3. Press .

**Note**

Any time the rear fog lamps are turned on, the park lamps and low beam headlamps will turn on automatically.

# Interior lighting

## Instrument panel illumination

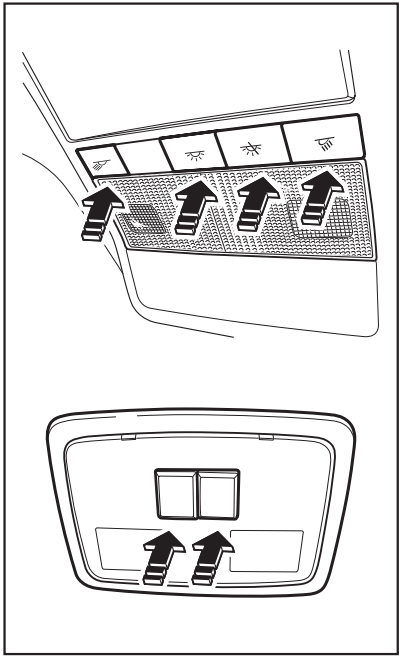



To adjust the instrument lighting brightness:

1. Rotate the lamp control to the or position.
2. Adjust by scrolling the wheel.

**Note**
When opening the driver's door or pressing on the key, the instrument panel lights illuminate automatically. They remain illuminated for approximately 30 seconds or until the ignition is turned to **ACC**.

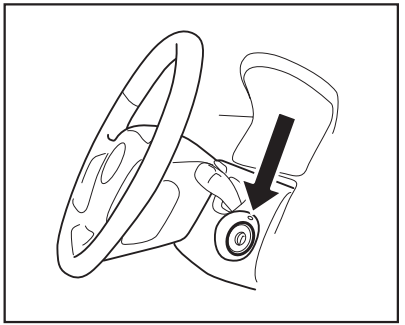
## Interior lamps



The interior lamps are located in the centre-front of the roof and the centre-middle of the roof.

- Press to turn the front reading lamps on or off.
- Press to turn the reading lamps and the centre lamps on or off.
- Press to turn the lamps off.
- The centre and rear lamps illuminate when a door or the tailgate is opened.
- If a door or the tailgate stays open, the lamps extinguish after approximately 10 minutes.
- When all doors and the tailgate are closed, the lamps gradually dim and switch off after approximately 10 seconds.

### Ignition lock/switch lamp



- The ignition lock/switch lamp illuminates when a door is opened.

  The lamp remains on for approximately 5 minutes if the door is left open.
- When the door is closed the lamp remains on for approximately 10 seconds, then switches off.

# Infotainment system

Introduction ..... 68
Radio ..... 75
CD player ..... 80

# Introduction

## General information

Do the following before driving:

- Read the infotainment system section to become familiar with the functions.
- Become familiar with the buttons.
- Set up the audio by presetting favourite stations, setting the tone and adjusting the speaker settings.

### About the system

- The audio system can be operated with the ignition key in the **ACC** or **ON** positions.

**⚠Warning**

When driving the vehicle, be sure to keep the volume of the unit set low enough to hear sounds from outside the vehicle (e.g. road and traffic conditions).

**Caution**

Do not place beverages close to the audio system. The audio system mechanism may be damaged if they spill.

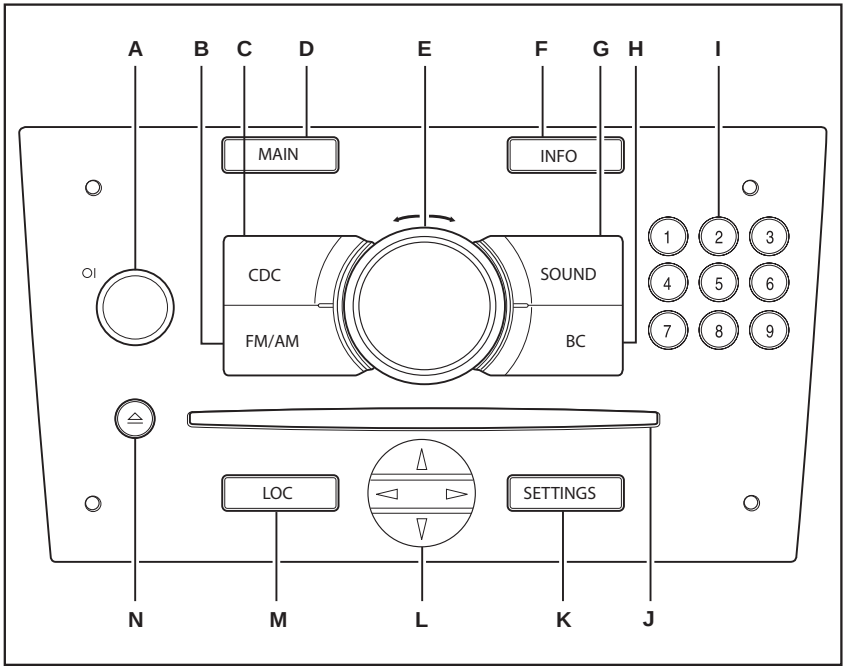
Do not strike or allow anything to impact the audio system as damage to the system mechanisms could occur.

## Security system

The audio system is electronically secured. It can only operate in your vehicle.

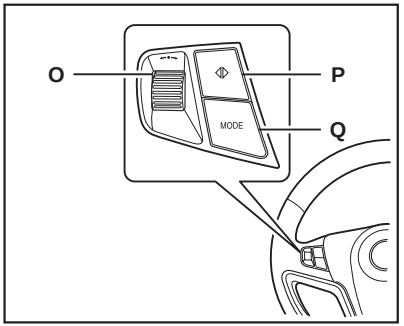
If the audio system is removed for any reason it will not function in another vehicle.

## Overview

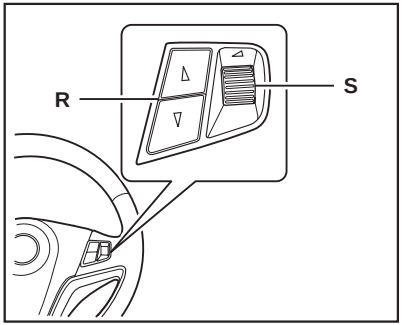


A. Power/mute button
B. Band selection button (radio)
C. CD selection button
D. Main menu button
E. Multifunction switch
F. Information button
G. Sound button
H. Board computer button
I. Preset buttons (radio)
J. CD slot
K. Settings button
L. Search/scan switch
M. Search sensitivity (radio)
N. CD eject button

## Steering wheel remote controls




O. Multifunction scroll wheel
P. Memory preset/CD select
Q. Mode button




R. Search buttons
S. Volume scroll wheel

## Operation

### Power on

To turn the power on, do one of the following:

- Press OI (A).
- Press ⏏ (N).

  The current mode will be displayed.

### Power off

- Press OI (A).

### Volume

- Rotate OI (A).

### Automatic power on/off

The audio system switches on and off whenever the ignition key is turned to **ACC**.

To enable or disable:

1. Press **MAIN** (D).
2. Press **SETTINGS** (K).
3. Select **Ign. logic**.

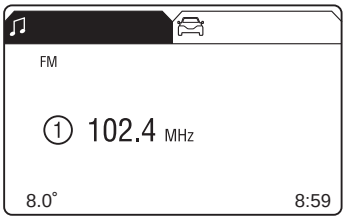
   Enabled: The radio will be switched on/off automatically with the ignition.

   Disabled: The radio can only be switched on via the ON/OFF button.

   Enabled ☒ or Disabled ☐

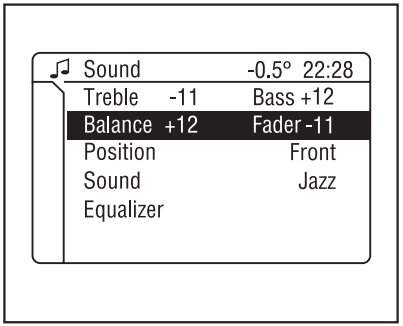
**Note**
The audio system switches off after 1 hour if it was switched on with the ignition key in the **OFF** position.

### Main audio menu




1. Press **Main** (D).
2. Rotate (E) clockwise until the ♫ screen is displayed.

## Audio adjustment




### Treble

Adjust the high frequency sound quality.

The treble settings apply to the currently selected audio source and are stored separately for the radio and CD player.

1. Press **SOUND** (G).

   The Sound menu is displayed.
2. Rotate and press (E) to select Treble Bass.

   The Treble Bass menu is displayed.
3. Rotate and press (E) to select Treble.

   The Treble slider is displayed.
4. Rotate (E) to adjust.
5. Press (E) to store the setting.
6. Rotate and press (E) to select **Return** or **Main** to exit.

### Bass

Adjust the low frequency sound quality.

The bass settings apply to the currently selected audio source and are stored separately for the radio and CD player.

1. Press **SOUND** (G).

   The Sound menu is displayed.
2. Rotate and press (E) to select Treble Bass.

   The Treble Bass menu is displayed.
3. Rotate and press (E) to select Bass.

   The Bass slider is displayed.
4. Rotate (E) to adjust.
5. Press (E) to store the setting.
6. Rotate and press (E) to select **Return** or **Main** to exit.

**Balance**

Adjust the volume separation between left and right speakers.

1. Press **SOUND** (G).

   The Sound menu is displayed.
2. Rotate and press (E) to select Balance Fader.

   The Balance Fader menu is displayed.
3. Rotate and press (E) to select Balance.

   The Balance slider is displayed.
4. Rotate (E) to adjust.
5. Press (E) to store the setting.
6. Rotate and press (E) to select **Return** or **Main** to exit.

**Fader**

Adjust the sound separation between the front and rear speakers.

1. Press **SOUND** (G).

   The Sound menu is displayed.
2. Rotate and press (E) to select Balance Fader.

   The Balance Fader menu is displayed.
3. Rotate and press (E) to select Fader.

   The Fader slider is displayed.
4. Rotate (E) to adjust.
5. Press (E) to store the setting.
6. Rotate and press (E) to select **Return** or **Main** to exit.

**Position**

Optimise the surround sound using preset position values.

1. Press **SOUND** (G).

   The Sound menu is displayed.
2. Rotate and press (E) to select Position.
3. Rotate (E) to select from:

   Driver: Optimisation of surround sound for the driver.

   Front: Optimisation of surround sound for the front passenger.

   All positions: Optimisation of surround sound for all passengers.
4. Press (E) to select.

   The option selected is indicated by ⊙.
5. Rotate and press (E) to select **Return** or **Main** to exit.

**Sound**

1. Press **SOUND** (G).

   The Sound menu is displayed.
2. Rotate and press (E) to select Sound.
3. Rotate (E) to select from:

   User, Jazz, Speech, Pop, Classical, Rock.
4. Press (E) to select.

   The option selected is indicated by ⊙.
5. Rotate and press (E) to select **Return** or **Main** to exit.

   **Note**
   User uses Equalizer settings. See Equalizer on page 74.

**Equalizer**

Adjust the seven sound equalizer settings.

To activate, select User from the Sound menu. See Sound on page 74.

1. Press **SOUND** (G).

   The Sound menu is displayed.
2. Select **Equalize**.

   The equalizer menu is displayed.

   A slider is displayed for each of the seven frequencies.
3. Rotate and press (E) to select a frequency.
4. Rotate and press (E) to adjust the selected frequency.
5. Press (E) to store the setting.
6. Rotate and press (E) to select **Return** or **Main** to exit.

# Settings

## Volume menu

The following are available in the volume menu:

- SDVC: Speed dependant volume control
- Start up volume: Maximum volume at switch on.

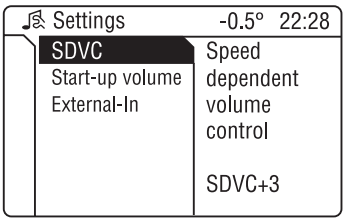
**Speed Dependant Volume Control (SDVC)**

To compensate for ambient and rolling noise, the volume of the audio system is adjusted to the speed of the vehicle.

1. Press **FM/AM** (B) or **CDC** (C).
2. Press **SETTINGS** (K).

   The audio settings menu is displayed.
3. Press (E) to select Volume.

   The volume menu is displayed.




4. Press (E) to select **SDVC**.
   A slider for SDVC is displayed.
   0: Off
   1: Small compensation
   5: Maximum compensation
5. Rotate (E) to adjust.
6. Press (E) to store.
   The settings menu is displayed.

**Start up volume**

1. Press **FM/AM** (B) or **CDC** (C).
2. Press **SETTINGS** (K).
   The audio settings menu is displayed.
3. Press (E) to select Volume.
   The volume menu is displayed.
4. Select **Start-up volume**.
   A slider for adjustment is displayed.
5. Rotate (E) until the desired value is set.
6. Press (E) to store the setting.
   The settings menu is displayed.

# Radio

## General information

### Radio reception

Frequency interference and static can occur during normal radio reception if items such as mobile phone chargers, vehicle convenience accessories and external electronic devices are plugged into the accessory power outlet.

If there is interference or static, unplug the item from the accessory power outlet.

# AM-FM radio

## AM band

The range for most AM stations is greater than for FM, especially at night.

The longer range can cause station frequencies to interfere with each other.

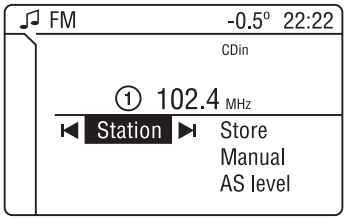
For better radio reception, most AM radio stations boost the power levels during the day and then reduce these levels at night.

Static can also occur when storms and power lines interfere with radio reception. When this happens, reduce the treble on the radio.

## FM stereo band

Although the radio has a built-in electronic circuit that automatically works to reduce interference, some static can occur, especially around tall buildings or hills.

# Operation




1. Press **OI** (A).
2. Press **FM/AM** (B).

   The tuner menu is displayed.

   The last station selected plays.
3. Press **FM/AM** (B) again to change bands.

   Alternatively, rotate and press (E) when **Return** is displayed.
4. Rotate and press (E) to select **FM** or **AM**.

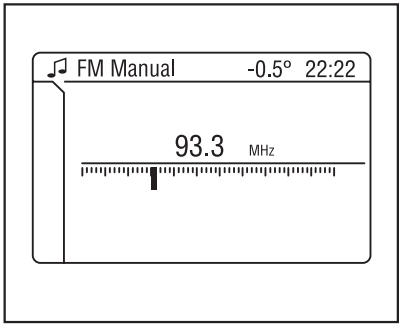
## Manual station search

1. Select a radio band. See Operation on page 76.

To manually search for a station:

1. Press and hold ∆ or ∇ (L) until the desired frequency is reached.

## Manual tuning




1. Select a radio band. See Operation on page 76.
2. Rotate and press (E) to select **Manual**.

   A slider with the entire waveband is displayed.
3. Rotate (E) until the frequency is reached.

   The station selected plays.
4. Press (E) to return to the tuner menu.

## Local function

The Local function provides two search levels with different sensitivities.

1. Press **LOC** (M).

   **Local on** or **Local off** is displayed.
2. Press **LOC** (M) again to change the selected setting.

   Local on:

   The first station search looks for the next strongest signal at the lower sensitivity level.

   If a strong signal is not found, the second station search is at a more sensitive level to find stations with weak signals.

   If the second search does not find a station, the previous frequency is restored.

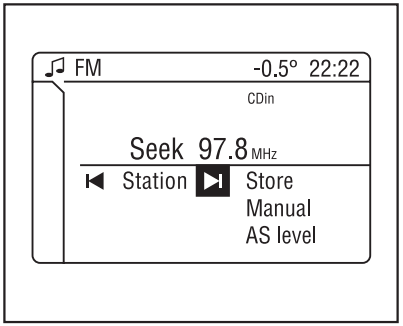
   If no further search is started within 1 minute, the lower sensitivity level is automatically reset for the next search.

   Local off:

   High sensitivity searches are made.

**Note**
The Local function setting cannot be changed in CD/MP3 mode.

## Automatic station search




Automatically search for a station one of two ways:

1. Press ◅ or ▻ (L) until **Seek** is displayed.

   Alternatively, rotate and press (E) to select I◄ or ►I.

   The radio is muted until a station is found.
2. Press ◅ or ▻ (L) or rotate and press (E) to continue searching.

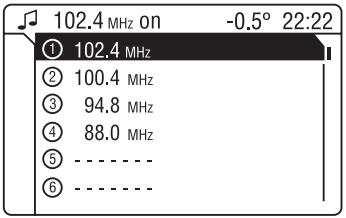
**Note**

- If the frequency of the station is known, hold ◅ or ▻ (L) until the frequency is almost reached.

  Release the switch.

  The next receivable station is automatically tuned in.
- If a station cannot be found, the last active station will be set.

## Manual storing




Manually store a station one of two ways:

Option 1:

1. Select a radio station. See Automatic station search on page 78.
2. Press and hold one of the preset buttons (I).

   The radio is muted for a short time.

   The station previously stored in the memory slot is displayed.

The station tuned in will be audible and the frequency is displayed.

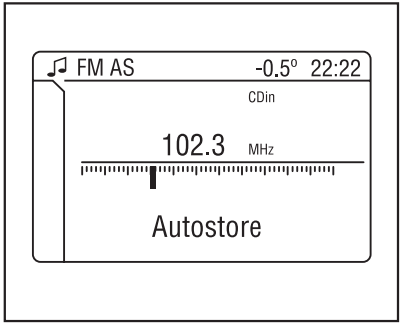
The station is stored in the selected memory slot.

Option 2:

1. Press **FM/AM** (B).
2. Set the desired station. See Automatic station search on page 78.
3. Rotate and press (E) to select Store.

   A list of stored stations is displayed.
4. Rotate (E) to select the memory slot required.
5. Press (E) to store.

## Autostore




Automatic Storing (AS) AM and FM stations in AS memory.

1. Press **FM/AM** (B).
2. Rotate and press (E) to select **AS level**.

   The Autostore menu is displayed.
3. Rotate and press (E) to select **Autostore**.

   Automatic station storing begins.

   Nine stations with the strongest signal, from the waveband selected, will be stored to the memory slots 1 to 9.

## Station memory

Separate memory slots are available for FM and AM as follows:

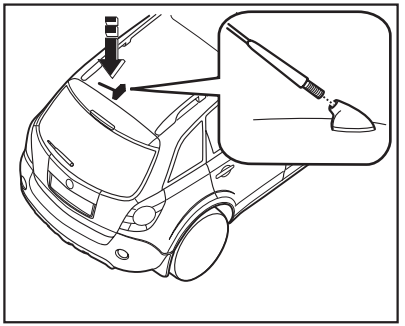
- 9 x FM stations, manually stored
- 9 x AM stations, manually stored
- 9 x FM-AS stations, automatically stored
- 9 x AM-AS stations, automatically stored.

The memory slots can be selected directly using the preset buttons (I) or selecting from the list of stations.

## Selecting a station

1. Select a radio band. See Operation on page 76.
2. Press a preset button (I).

## Antenna



Avoid damage to the antenna when loading the roof rails or when washing the vehicle, to avoid interference with radio reception.

- To remove the roof antenna, rotate anticlockwise.
- To install the roof antenna, rotate clockwise.

**⚠Warning**

Driving through an automatic car wash with the antenna installed may result in damage to the antenna or the roof panel. Remove the antenna before entering an automatic car wash.

# CD player

## General information

**Caution**

If a label is added to a CD, or more than one CD is inserted into the slot at a time or an attempt is made to play scratched or damaged CDs, the CD player could be damaged.

Use only CDs in good condition without any labels, load one CD only and keep the CD player and the loading slot free of foreign materials, liquids and debris.

If a description label is required, write on the top of the CD with a CD marking pen.

**Caution**

Avoid inserting any foreign objects into the slot of the player.

Failure to observe this may cause malfunction due to the precise mechanism of this unit.

### MP3/WMA format

- CDs with extensions other than .mp3 or .wma may not play.
- Song title, artist name and album will be displayed when recorded using ID3 tags version 1 and 2.
- If creating folders, create a structure that makes it easy to find songs while driving.
- To conserve space on a disc, minimise the length of the file and folder names.
- Record onto CD-R discs.

### CD-R format

Sound quality may be reduced due to:

- Method of recording
- Recording quality
- CD handling

### Handling CDs

- Avoid leaving fingerprints on the CD when removing it.
- Store any CDs in their protective covers.
- Ensure that CDs are clean and dry before inserting.
- Protect CDs from heat and direct sunlight.

### Audio system care

- Do not clean using cleaning fluid, alcohol or other solvents. Use only a damp cloth and wipe from the centre to the outer edge.
- Do not apply paint or colour to the audio system fascia.
- Do not dismantle the audio system. If a problem occurs, contact a Holden Dealer.

If errors occur repeatedly and cannot be corrected, contact a Holden Dealer.

# Playing a CD

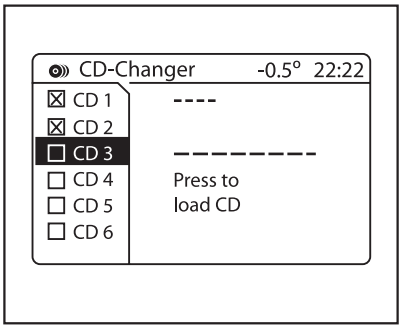
## Loading CDs

The vehicle has a six CD player.

1. Press **OI** (A).

   The audio source last selected is displayed.

2. Press ⏏ (N).




3. Rotate and press (E) to select an empty CD space.

   **Please insert CD now** is displayed.

4. Insert the CD into the CD slot (J).

   The CD is automatically drawn in.

   **Note**
   Do not assist or prevent the CD from being drawn in.

   Reading **CD X** is displayed.

   **CDin** is displayed for audio CDs and **MP3** is displayed for MP3 disks.

   Loaded CDs are indicated by ☒.

5. Insert more CDs if required.

   **Note**
   The radio can be played while changing CDs.

6. Press **CDC** (C) to play.

   **Note**
   If an unreadable CD is loaded, **Invalid CD!** is displayed.

## CD playback

1. Insert one or more CDs into the CD slot (J).
2. Press **CDC** (C).

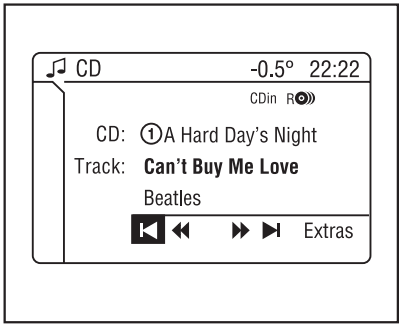
   The CD menu is displayed.

   The CD begins to play from the selected space.

**Note**

- The type of information displayed depends on the type of CD.
- Text information is only displayed if **Show title** is turned on in the extras menu.

The following information will be displayed:




- Audio CD: CD number, album name, track title and artist (depending on CD format)
- MP3 or mixed mode CD: CD number, album name, track title and artist

  **Note**
  If no CDs are inserted, the CD changer menu will be displayed. See Loading CDs on page 82.

## Track selection

Play a track, one of three ways:

Option 1:

1. While a CD is playing, press ◅ or ▻ (L) repeatedly until the desired track is displayed.

   The selected track will play.

Option 2:

1. While a CD is playing, rotate (E) to select I◄ or ►I.
2. Press (E) repeatedly until the desired track is displayed.

   The selected track will play.

Option 3:

1. Rotate and press (E) to select Track.

   A list of all tracks is displayed.

   The currently selected track is marked with an arrow.
2. Rotate and press (E) to select the desired track.

   The CD menu is displayed.

   The selected track is displayed.

   The selected track will play.

## Fast search

Fast search, one of two ways:

Option 1:

1. While a CD is playing, press and hold ◅ or ▻ (L) until the desired point is reached.

   The CD will play at an increased speed and reduced volume.

Option 2:

1. While a CD is playing, rotate (E) to select ◄◄ or ►►.
2. Press (E) to start fast search.

   The CD will play at an increased speed and reduced volume.
3. Press (E) to stop fast search.

   **Note**
   The fast search is not audible with MP3 tracks.

## Selecting a CD

Select a CD, one of three ways:

Option 1:

1. While a CD is playing, press a preset button (I).

   The CD player is muted.

   If a CD has not been read **CD: reading...** is displayed.

   The selected track is displayed.

   The selected track will play.

Option 2:

1. Tap ∆ or ∇ (L) repeatedly until the desired CD space is selected.

   The CD player is muted.

   If a CD has not been read **CD: reading...** is displayed.

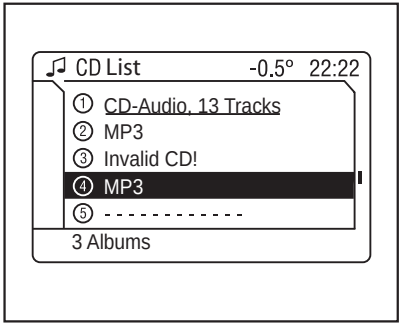
   The selected CD is displayed.

   The selected CD will play.

Option 3:

1. Press **CDC** (C).
2. Rotate and press (E) to select CD or Album from the menu.

   A CD album list is displayed.




   The currently selected CD will be underlined.

3. Rotate and press (E) to select a CD.

   The selected CD is displayed.

   The selected CD will play.

**Note**

- If no other CDs are inserted, playback of the current CD will continue.
- If an MP3 or mixed mode CD with several albums are inserted, these are also shown on the list.
- If a mixed mode CD is inserted, the audio tracks are played first, then the MP3 files.

## Album or CD selection for MP3 or mixed CDs

Option 1:

1. While a track is playing, press ∆ or ∇ (L) until the desired album or CD is displayed.

   The first track from the CD or album will play.

Option 2:

1. Rotate and press (E) to select Album.

   A CD or MP3 album list is displayed.

   The current CD is underlined.

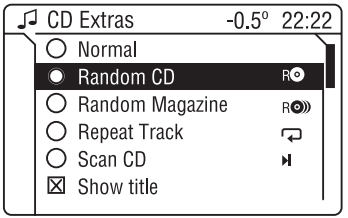
   The played album or MP3 folder is marked with an arrow.
2. Rotate and press (E) to select an album or CD.

   The CD menu is displayed.

   The first track from the selected album or CD is displayed.

   The selected track will play.

## CDC extra features




Enable or disable functions in the CD Extras menu. See Random mode on page 85, Repeat track mode on page 86, Scan CD mode on page 87 and CD text mode on page 88.

## Random mode

Random play CD or magazine:

- Audio CD: Tracks of the CD will be played in a random order.
- MP3 CD: If there are five or fewer albums on an MP3 CD, four tracks per album are played in random order.

  If there are more than five albums on an MP3 CD, one track is played per album.
- Mixed mode CD: The audio tracks are played in random order, then the tracks from the MP3 files are played as described above.

Random magazine:

The tracks of all CDs inserted are played in random order.

- Audio CD: Four tracks per CD are played before changing to the next CD.

- MP3 CD: If there are five tracks or fewer albums on an MP3 CD, four tracks per album are played before changing to the next CD.
  If there are more than five albums, one track per album is played before changing to the next CD.
- Mixed mode CD: On a mixed mode CD, first of all four tracks from the audio part are played in random order and then the system changes to the next CD.
  The next time the system changes to the mixed mode CD, the tracks from the MP3 part are played as described above.

Switch on random CD:

1. Press **CDC** (C).
2. Rotate and press (E) to select Extras.
   The Extras menu is displayed.
3. Rotate and press (E) to select **Random CD**.
   The CD menu is displayed.
   R is displayed.

Switch on random magazine:

1. Press **CDC** (C).
2. Rotate and press (E) to select Extras.
   The Extras menu is displayed.
3. Select **Random Magazine**.
   The CD menu is displayed.
   R is displayed.

Switch off random play CD or magazine:

1. Press **CDC** (C).
2. Rotate and press (E) to select Extras.
   The Extras menu is displayed.
3. Rotate and press (E) to select Normal.
   The CD menu is displayed.
   R or R is no longer displayed.

## Repeat track mode

Switch on repeat track:

Option 1:

1. While a track is playing, press and hold ▽ (L) until ↻ is displayed.
   **Repeat On** is displayed for approximately 3 seconds.
   The track plays continuously.

Option 2:

1. Press **CDC** (C).
2. Rotate and press (E) to select Extras.
   The Extras menu is displayed.
3. Select **Repeat Track**.
   The CD menu is displayed.
   ↻ is displayed.
   The track plays continuously.

Switching off repeat track:

Option 1:

1. Hold ▽ (L) until ⮌ is no longer displayed.

   **Repeat Off** is displayed for approximately 3 seconds.

Option 2:

1. Select a new track. See Track selection on page 83.

Option 3:

1. Press **CDC** (C).
2. Rotate and press (E) to select Extras.

   The Extras menu is displayed.
3. Rotate and press (E) to select Normal.

   The CD menu is displayed.

   ⮌ is no longer displayed.

## Scan CD mode

Switching on scan CD:

Option 1:

The scan CD function plays the first 10 seconds of each track on the CD.

1. While a track is playing, press and hold △ (L) until ▶I is displayed.

   **Scan Tracks** is displayed for 3 seconds.

Option 2:

1. Press **CDC** (C).
2. Rotate and press (E) to select Extras.

   The Extras menu is displayed.
3. Rotate and press (E) to select Scan CD.

   The CD menu and ▶I is displayed.

Switching off scan CD:

Option 1:

1. Press and hold △ (L) until ▶I is no longer displayed.

Option 2:

1. Select a new track, see Track selection on page 83.

Option 3:

1. Press **CDC** (C).
2. Rotate and press (E) to select Extras.

   The Extras menu is displayed.
3. Rotate and press (E) to select Normal.

   The CD menu is displayed and ▶I is no longer displayed.

## CD text mode

Enabling and disabling CD text:

- Enabled: CD name, track name, artist's name and album name are displayed.
- Disabled: Track number, CD-number, album number and playing time are displayed.

**Note**
If a CD does not contain text, track number and playing time are displayed.

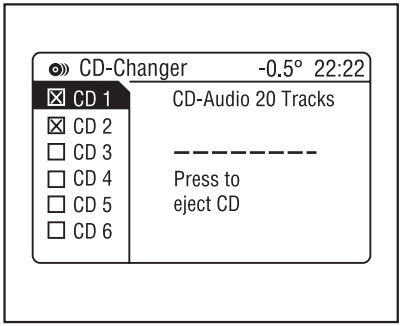
1. Press **CDC** (C).
2. Rotate and press (E) to select Extras.

   The Extras menu is displayed.
3. Rotate and press (E) to select Show title.

   ☒: CD text mode enabled

   ☐: CD text mode disabled

## Ejecting a CD




1. Press ⏏.

   The CD player menu is displayed.
2. Rotate and press (E) to select a CD space.

   The CD is ejected.

   Remove the CD.

   **Note**
   If the CD is not removed, it is automatically drawn back into the player.

## Removing all CDs

Remove all CDs from the player at the same time.

1. Press and hold ⏏.

   **Eject CDs?** is displayed.
2. Rotate and press (E) to select **OK**.

   Alternatively, wait 4 seconds.

   The CDs will be ejected one after the other.

To stop CDs ejecting:

1. Rotate and press (E) to select Cancel.

**Note**

- If a CD is not removed, it is automatically drawn back into the player and no more CDs are ejected.
- If there are no CDs, **Magazine empty!** is displayed for 5 seconds.
- If a CD is ejected, the last radio station selected is played.

# Climate control

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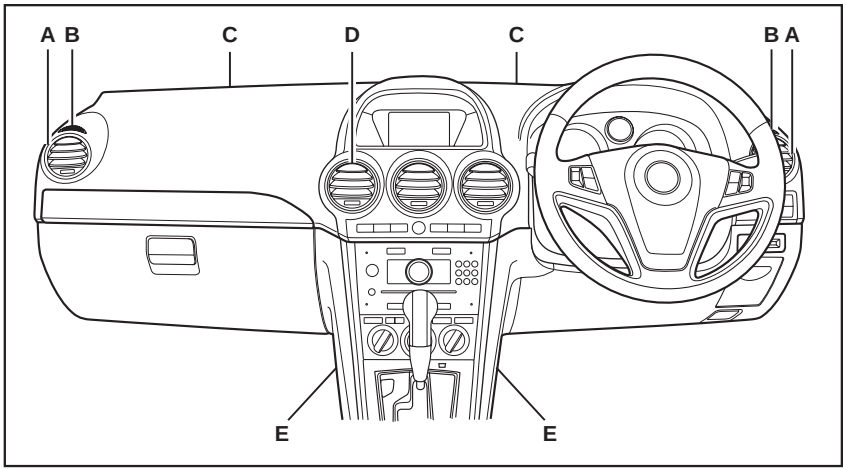
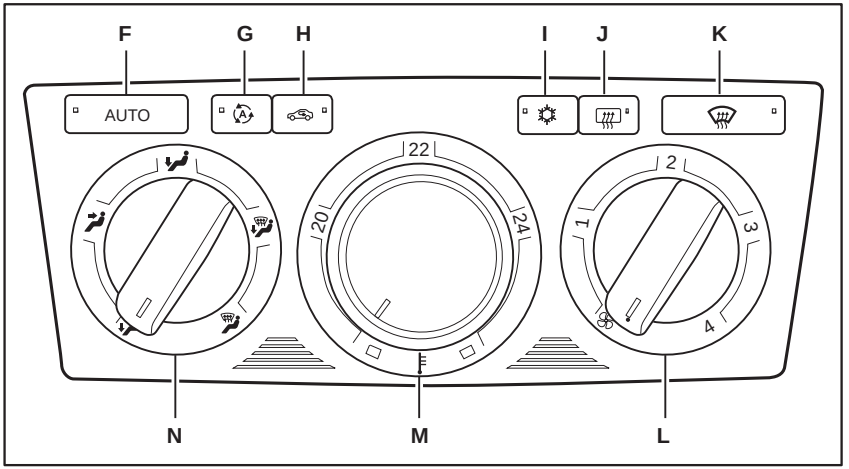
## Climate control systems



A. Side vents
B. Window demister vents
C. Windscreen demister vents
D. Centre vents
E. Floor vents

## Automatic climate control system




F. Automatic operation
G. Anti-Pollution Sensor (APS)
H. Recirculation
I. Air conditioning
J. Rear window demister
K. Windscreen demister
L. Fan speed selector
M. Air temperature selector
N. Air outlet selector

## Automatic operation

The system automatically controls:

- Fan speed
- Air delivery
- Air conditioning
- Recirculation

1. Press **AUTO** (F).
2. Set the temperature.

   Allow the system time to stabilise.
3. Adjust the temperature.

**Note**

- The light on the **AUTO** button goes out when the system is operating manually.
- Use minimal manual adjustment.

## Anti-Pollution Sensor (APS)

1. Press (G) to turn the APS on or off.

   The APS automatically switches from outside air to recirculation, to prevent exhaust gas from outside, entering the passenger compartment.

**Note**

Do not use APS for an extended period of time. The windows may fog up.

## Recirculation

1. Press (H) to recirculate air within the passenger compartment.
2. Press (H) again to switch recirculation off.

   Outside air enters the passenger compartment.

**Note**

Recirculation reuses interior air, so it is not recommended for long periods of time.

## Air conditioning

1. Press (I) to turn the air conditioning on and off.

### Rear window demister

1. Press (J) to turn the rear window demister on or off.

   The rear window demister turns off automatically within 15 minutes.

| Caution |
| --- |
| Do not use sharp objects or abrasive window cleaners on the rear window.<br>Do not scratch or damage the wires when cleaning. |

### Windscreen demister

1. Press (K) to turn the windscreen demister on or off.

### Fan speed selector

1. Rotate the fan speed selector (L) clockwise or anticlockwise to increase or decrease the fan speed.

   The fan must be turned on for the air conditioning to operate.

   AUTO mode is cancelled when the fan speed selector is rotated.
2. Press **AUTO** to return to automatic operation.

### Air temperature selector

1. Rotate the air temperature selector (M) clockwise or anticlockwise to increase or decrease the temperature.

### Air outlet selector

1. Rotate the air outlet selector (N) clockwise or anticlockwise to change the air distribution.

   Bi-level mode: directs air to both the dashboard and floor outlets.

   Face mode: directs air to the dashboard outlets.

   Floor mode: directs air to the floor outlets, with some air directed to the rear outlets.

   Floor and windscreen demist mode: directs air to the windscreen and floor outlets and clears the windows of moisture.

   Windscreen demist mode: directs air to the windscreen and clears the windscreen of moisture quickly.

**Note**

- Do not drive the vehicle until all the windows are clear.
- AUTO mode is cancelled when the air outlet selector is rotated.

  Press **AUTO** to return to automatic operation.

### Sunlight sensor

- The sunlight sensor is located in front of the windscreen demister.
- The sunlight sensor responds to sunlight, to regulate the temperature when in **AUTO** mode.
- Do not cover the sunlight sensor.

# Air vents

## Adjustable air vents

The direction of air flowing out of the vents can be changed by moving the airflow deflectors up, down, left or right.

Some vents may have a shut off wheel. See Climate control systems on page 89.

### Centre vents and side vents

Rotate the wheel to the right to close the vent or to the left to open the vent.

### Demister vents

Demister vents are located at the base of the windscreen and are controlled by the air outlet selector (N).

### Floor vent

Floor vents are located under the dashboard and are controlled by the air outlet selector (N).

### Side demister vents

Side demister vents are located above the side vents and are controlled by the air outlet selector (N).

**Note**

- Clear away any debris from the outside air inlets, at the base of the windscreen.
- Keep the area under the front seats clear of objects to assist with air flow.
- Contact a Holden Dealer before adding equipment to the outside of the vehicle.

# Maintenance

## Passenger compartment pollen filter

The filter removes contaminants such as pollen and dust from the air entering the vehicle.

Maintenance of the pollen filter is required. Refer to the Service/ Warranty Booklet.

# Regular operation

### Engine performance/ fuel economy

A small decrease in engine power and a slight increase in fuel consumption will be noticed when the air conditioning is in use.

### Quick cool down

When entering the vehicle on a hot day, open the windows for a short time to allow the hot air to escape, before operating the air conditioning.

### Water

Water condensation can leave traces of clear water on the ground underneath the vehicle. This is normal.

### Unsealed roads (prevention of dust entry)

- When following another vehicle on unsealed roads and the dust is airborne, select recirculation.
- If the dust is not airborne, select outside air and set the fan to high speed to help prevent dust entry.
- Ensure in both cases that all windows are closed.
- Do not use recirculation for long periods of time.

### Cigarette smoke

Do not use recirculation if occupants are smoking.

### Window demisting

For improved window demisting on rainy days or in high humidity, switch the air conditioning on.

# Driving and operating

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# Driving information

## Before entering the vehicle

Check that windows, mirrors and lamps are clean.

Visually check tyre inflation. Check tyre pressures weekly.

## Before driving off

1. Close and secure all doors.
2. Position the seat for comfortable driving.
3. Adjust rear view mirrors.
4. Fasten seat belts.
5. Check that warning indicators illuminate when turning the ignition on. See Warning lights, gauges and indicators on page 50.

## Off-road driving

Hose down the front of the vehicle to clear any mud or debris. Make sure both sides of the radiator are clear.

Vehicle vibration may be due to dust build up on the inner surface of the wheel rims. Remove if necessary.

### All Wheel Drive (AWD)

The vehicle may have an AWD system.

The AWD Captiva is designed to maintain a very high degree of comfort, ride, handling and stability, therefore, ground clearance may not be sufficient to allow the vehicle to be driven over very severe four wheel drive tracks.

For off-road driving, the vehicle is equipped with AWD, increased ground clearance and a traction control system.

Drive slowly and with caution:

- On unfamiliar roads
- Where there are washaways, loose or slippery patches, rocks, fallen tree branches, deep pot holes or ditches

Travel with another vehicle when driving on remote or poor quality roads.

### Front Wheel Drive (FWD)

The vehicle may have an FWD system.

The FWD Captiva is designed primarily for on-road use.

The vehicle may be used on well maintained unsealed (gravel) roads.

## Driving on wet roads

### Tyre grip

Tyre grip decreases when water, snow, ice, gravel or other materials are on the road. Adjust your driving to the road conditions:

- Reduce speeds during wet conditions.
- Replace tyres when tread wear indicators are visible. See Tread depth on page 160.
- Regularly check that tyres are properly inflated. See Wheels and tyres on page 159.

### Snow chains

**⚠Warning**

You must not use standard snow chains if your vehicle is fitted with 17 inch wheels. The fitting of standard snow chains may cause damage to your vehicle. For available alternatives, contact a Holden Dealer.

- Snow chains may only be used at speeds up to 50 km/h.
- Snow chains should only be used for brief periods when driving on roads that are free of snow. They will wear quickly and may snap.
- The part of the snow chain that covers the tyre tread should not be thicker than 13 mm.

  The use of thicker chains may cause damage to the body of the vehicle.

### Mud and snow tyres

**⚠Warning**

The use of tyres that are a different size or construction i.e. mud or snow tyres, may adversely affect the Electronic Stability Control (ESC) system.

When fitted with winter tread tyres, the vehicle should not be driven at speeds in excess of the tyre category symbol as moulded on the tyre, or in the absence thereof, at high speeds.

### Water crossing

Before crossing water:

- Switch off the air conditioning.
- Check the depth with a stick or by walking slowly into the water before driving through.
- Do not attempt to drive through water more than 300 mm deep (approximately 12 inches).
- Never drive into fast running water. The force of the water can easily move the vehicle sideways, possibly into deeper water.
- Drive very slowly through deep water. Driving too fast may cause water to enter the engine and cause major damage.
- Immediately after driving through deep water, drive slowly and check the brake pedal force.

  If the brakes are wet, press firmly several times to dry them out quickly.
- If the vehicle is stationary in deep water for an extended time, water may have entered the engine, transmission, differentials and wheel bearings. Contact a Holden Dealer as soon as possible.

# Starting and operating

## New vehicle running-in

To assist the vehicle's future performance and economy use the following precautions:

- Always drive at a moderate speed until the engine has completely warmed up.
- For the first 500 km:

  Do not exceed 90 km/h.

  Avoid making hard stops except in an emergency to avoid premature wear and early replacement of brakes.
- Up to 1,500 km, avoid driving at any one speed, either slow or fast, for any length of time.

  Include some higher speeds.
- Drive the vehicle for 1,500 km before towing a load. See Running-in when towing on page 129.

- For AWD vehicles, do not tow heavy loads off-road before 1,500 km.

## Brakes

- Do not let the vehicle run down hills or coast with the engine off, as the power assistance does not operate.
- A decrease in traction occurs when water, snow, ice, gravel or other materials are on the road surface.

  Adjust driving and vehicle speed to suit the road conditions.
- Driving through water may affect performance.

  Apply the brakes lightly to check whether they have been affected.

  To dry them quickly, lightly apply the brakes while maintaining a slow forward speed with a clear distance ahead until brake performance returns to normal.
- Ensure that nothing is under the brake pedal which could limit their use, such as poorly fitting floor mats.
- Position the driver's seat so the brake pedal can be operated under all braking conditions.

## Power steering

- The power steering fitted to the vehicle has been designed to reduce steering effort.
- Do not turn and hold the steering wheel in the fully turned position when stationary.
- If power steering is not working, due to the engine stalling for example, the vehicle can still be steered. Have the steering repaired as soon as possible by a Holden Dealer.

## Speed Sensitive Power Steering (SSPS)

- The SSPS system varies the driver effort required to steer as the vehicle speed changes.
- At low speeds, the system provides maximum assistance for easy turning and parking.
- At higher speeds, the assistance is reduced to provide firmer steering and directional stability.
- If illuminates, the effort required to steer will increase. Contact a Holden Dealer as soon as possible. See Warning lights, gauges and indicators on page 50.

## Mobile phones and CB radios

Mobile phones and CB radio equipment used inside the vehicle:

- Which use an integrated antenna, may cause interference and temporarily affect the vehicle's electronics

  Permanent damage is unlikely
- That use an antenna fitted to the outside of the vehicle, should be used whenever possible

If phones or CB radios with an integrated antenna must be used inside the vehicle, avoid operating near the instrument panel.

## Loading the vehicle

Loading the vehicle changes handling when driving. See Vehicle weight on page 180.

## Loose articles

Do not leave loose articles or luggage in the passenger compartment. Secure in the rear load area.

**⚠Warning**

Portable gas cylinders can leak, creating a risk of fire or explosion.

As a precaution, ensure adequate ventilation when carrying gas cylinders.

They must be restrained from rolling around and where possible, placed in the rear load area of the vehicle.

It is recommended that if gas cylinders are frequently transported that a purpose-built carrying compartment be used.

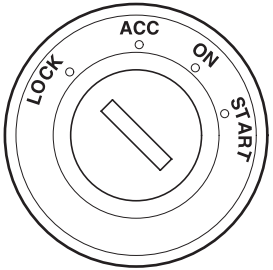
Ensure any transportation of gas cylinders complies with the applicable regulations.

## Ignition positions

**⚠Warning**

Do not turn the engine off while the vehicle is moving as there will not be any power assist for brakes or steering.

Never remove the key while the vehicle is moving, as this will lock the steering.



**LOCK**: When the key is in the LOCK position, some electrical accessories and the engine are off.

The key can only be inserted and removed from the LOCK position.

The engine is automatically disabled shortly after removing the key from the ignition.

The steering wheel is automatically locked when the key is removed.

To release the steering lock, re-insert the key and turn it towards the front of the vehicle. If still locked, turn the steering wheel slightly to the right or left while turning the key towards the front of the vehicle.

**ACC**: When the key is in the ACC (accessories) position, the audio system will still operate.

**ON**: When the key is in the ON position, the engine is ready to start and all electrical systems are active.

**Note**

- Warning lamps will illuminate. See Warning lights, gauges and indicators on page 50.
- Do not leave the switch in the ON position for a long time, unless the engine is running, otherwise the vehicle's battery will discharge.

**START**: Turn the key to the START position until the engine starts.

The key automatically returns to the ON position when released.

## Starting the engine

1. Apply the park brake. Release it only after starting the engine and you are ready to drive off.
2. Automatic transmission: Move the shift lever to position **P** or **N**. The engine will not start if the shift lever is in any other position.

   As a safety precaution, have your foot on the brake pedal to move the shift lever out of position **P**.

   Manual transmission: Push the clutch pedal to the floor, move the shift lever to the neutral position then start the engine. Release the clutch pedal slowly.
3. Starting the engine:

   For cold or hot starting, the procedure is the same.

   Do not touch the accelerator pedal.

Petrol engine:

1. Turn the ignition key to **START** until the engine starts.

   The key automatically returns to the ON position when released.

Diesel engine:

1. Turn the ignition key to **ON**.

When ⟅ extinguishes:

2. Turn the ignition key to **START** until the engine starts.

   The key automatically returns to ON when released.

**Note**

- The diesel preheating (glow plugs) system switches on only if the outside temperature is low.
- If the engine does not start within 10 seconds, wait another 15 seconds to let the starter motor cool down.
- Turn the ignition key to **START** again with the accelerator pedal pushed to the floor, for a maximum of 10 seconds.
- If the engine still does not start, release the key and pedal.

  Wait another 15 seconds, then repeat the entire procedure.
- If the engine still fails to start, contact a Holden Dealer.

## Engine will not crank or start

1. Turn the ignition key to **OFF** and remove the key.
2. Insert the key and start the engine again.

   **Note**

   If 🔒 illuminates while starting the vehicle, a fault may have occurred. Contact a Holden Dealer to have the fault repaired.

| Caution |
| --- |
| Petrol engine: When starting the engine, do not hold the key in the start position for any extended time. If unburnt fuel were to reach the catalytic converter and ignite, the catalytic converter could overheat or be destroyed by backfire. |

**Note**

Do not subject the engine to full throttle acceleration or high speeds until it has reached normal operating temperature. Premature engine wear or damage may result.

## Automatic transmission shiftlock control system

The vehicle has a Brake-Transmission Shift Interlock (BTSI) system.

The shift lock release is designed to:

- Prevent ignition key removal unless the shift lever is in **P** with the shift lever button fully released.
- Prevent movement of the shift lever out of **P**, unless the engine is on and the brake pedal is applied.

**Note**
The shift lock release is always functional unless the battery is uncharged or has low voltage.

To shift out of **P**:

1. Apply the brake pedal.
2. Press the shift lever button.
3. Move the shift lever to the desired position.

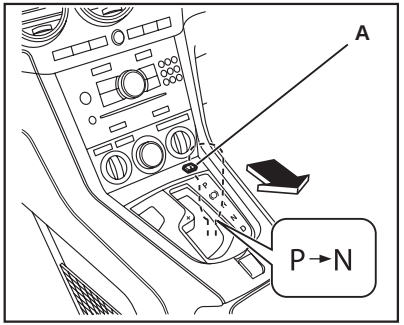
If still unable to shift out of **P**:

1. Release the shift lever button.
2. Press and hold the brake pedal.
3. Press the shift lever button again.
4. Move the shift lever to the desired position.

If the shift lever still cannot be moved, use the manual release. See Shiftlock manual release on page 102.

### Shiftlock manual release

1. Turn the ignition to **LOCK** and remove the key.
2. Press and hold the brake pedal.




3. Open the cover (A).
4. Insert and press the ignition key into the transmission shiftlock slot.
5. Move the shift lever to **N**.
6. Remove the key from the slot.
7. Close the cover (A).

8. Start the engine and move the shift lever into any position.
9. Have the vehicle repaired by a Holden Dealer as soon as possible.

**Note**

- If the shift lever is returned to **P**, the above procedure will need to be repeated to move the shift lever into **N**.
- The above procedure will need to be carried out if the vehicle has a flat battery and requires towing. Refer to Towing a disabled vehicle on page 169.

## Parking

1. Apply the park brake.

   Before leaving the vehicle, ensure Ⓟ is illuminated on the instrument panel. See Electric Park Brake (EPB) on page 110.
2. Automatic transmission: Move the shift lever to position **P**.

   Manual transmission: Place in reverse or first gear.
3. Shut all windows.
4. Switch off all exterior lamps.
5. Turn the ignition key to **LOCK** and remove the key.
6. Lock all doors.

**⚠Warning**

To avoid the possibility of injury, always apply the park brake fully before exiting the vehicle.

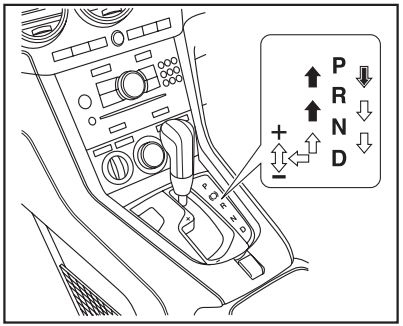
Be careful where you park or drive. As with any vehicle, do not park or operate this vehicle in areas where combustible materials such as dry grass or leaves can come in contact with the hot exhaust system.

Never leave the engine running in an area such as a closed garage or underground car park.

# Automatic transmission

The vehicle may have an automatic transmission.

### Shift lever positions




Always have your foot on the brake pedal when shifting out of **P** or **N**.

**P**: In park position, the wheels are locked. The vehicle may be started from the **P** position. Do not select **P** until the vehicle has stopped. Apply the park brake before leaving the vehicle.

**Note**
The vehicle has Brake Transmission Shift Interlock (BTSI). To move the shift lever out of position **P**, have the ignition turned on and depress the brake pedal. If the vehicle's battery is flat, see Automatic transmission shiftlock control system on page 102.

**R**: Place in reverse gear only when the vehicle is stationary and the ignition is turned on. The reverse lamps will illuminate. Ensure the vehicle has stopped before selecting a forward gear.

**N**: In neutral the vehicle is out-of-gear. A stalled engine can be restarted while the vehicle is still moving.

**D**: Used for general driving. The transmission moves from first through to sixth gear depending on driving conditions while maintaining optimum fuel economy.

Sixth gear is overdrive which reduces engine speed and noise levels while increasing fuel economy.

### Shifting between gears

Movement between certain gear positions requires pressing the select button on the front of the shift lever.

When the ignition is turned on, depress the brake pedal and press the select button as indicated by the black or white arrows as follows:

➡ Apply the brake pedal and press the select button on the shift lever to shift.

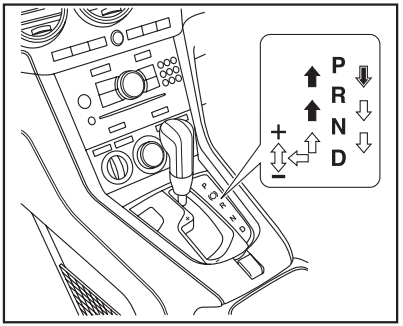
➡ Press the select button on the shift lever to shift.

⇨ It is not necessary to apply the brake pedal or press the select button on the shift lever to shift.

**⚠Warning**

You can select some transmission positions without pressing the select button on the shift lever. However, it is recommended that you become familiar with these positions to prevent any accident or damage to the transmission that may occur due to incorrect operation.

## Active select mode




- To enable active select mode, move the shift lever to position **D** then push the lever to the left.
- To return to position **D**, push the shift lever back to the right.

Active select:

- Can be enabled when the vehicle is stationary or in motion.
- In contrast to manual transmission, allows gearshifts with the accelerator pedal depressed.

In active select mode:

- Moving the shift lever backwards (-) and forwards (+) can make rapid gear shifts simple.

  Push the lever forwards (+) once to shift up one gear.

  Pull the lever backwards (-) once to shift down one gear.
- Only the six forward gears can be selected.
- Downward shifts are made automatically when the vehicle slows down.

  When the vehicle stops, first gear is automatically selected.
- To maintain the required levels of vehicle performance and safety, the system may not execute certain gear shifts when the shift lever is operated.
- Before driving away from a stop on a slippery road, push the shift lever forwards (+) into second gear for a smooth start.

  Pull the shift lever backwards (-) to return to first gear.

## Fuel economy mode

To improve the vehicle's fuel economy:

1. Press **ECO**.

   The button is located on the passenger side of the shift lever.

   The ECO light on the instrument panel illuminates.
2. To turn ECO mode off, press **ECO** again.

When fuel economy mode is on:

- The transmission will upshift sooner and downshift later.
- The torque converter will lock up sooner and stay on longer.
- The accelerator pedal will be less sensitive.
- Under deceleration, fuel shut off to the engine will be more aggressive.

**Note**
Do not use fuel economy mode while towing.

## Emergency operation

If a problem is detected with the transmission, illuminates. The transmission may not operate normally.

If stays on and the transmission does not shift, contact a Holden Dealer.

### Operating notes

- Do not press the accelerator pedal when moving the shift lever into **R** or **D**.
- Shift to a lower gear before descending steep grades.
- Do not rest your foot on the brakes as they may overheat. This is particularly important when towing.
- Take care on slippery surfaces when accelerating, shifting gears or braking. An abrupt change in engine speed, such as sudden acceleration or engine braking, may cause the drive wheels to spin or skid.
- Do not press the accelerator pedal while using the park brake or foot brake, when in **D** or **R**. This may overheat the transmission.
- Do not use the accelerator pedal to hold the vehicle on a slope. Use the brakes.
- Do not coast the vehicle in **N**. This reduces control of the vehicle as well as engine braking power.
- Always slow down in gusty crosswinds.
- The automatic transmission fluid level will be checked when the vehicle is serviced. Refer to the Service/Warranty Booklet.

### Transmission kick down

For faster acceleration, press the accelerator pedal all the way down and hold it. The transmission will shift to a lower gear giving more power.

When the desired speed is reached, lift your foot off the accelerator and the transmission will shift up.

### Engine braking

Place the transmission into active select mode to select a lower gear, before descending steep grades.

### Stopping the vehicle

When stopping the vehicle on a slope, use the park brake or foot brake. Do not hold the vehicle stationary by pressing the accelerator.

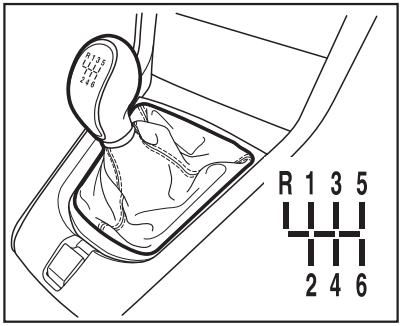
### Transmission shiftlock control system

Automatic transmission: The vehicle has a Brake Transmission Shift Interlock (BTSI) system. For operating instructions see Automatic transmission shiftlock control system on page 102.

# Manual transmission

The vehicle may have a manual transmission.

### Shift pattern




The manual transmission has six forward gears and a reverse gear.

The shift pattern is found on the top of the shift lever.

### Operating notes

- When shifting from one gear to another, push the clutch pedal to the floor.
- Do not engage reverse gear while the vehicle is still moving.
- Pause between pressing the clutch pedal and moving into reverse gear.
- Whenever reverse gear is selected with the ignition on, the reverse lamps illuminate.
- Move the shift lever with moderate effort to allow time for the transmission to operate.
- Do not drive with your foot resting on the clutch pedal.
- When stopped on an incline, do not hold the vehicle stationary using the clutch. Use the park brake or foot brake.
- Shift to a lower gear when climbing steep grades, before the engine starts to labour.
- Shift to a lower gear before descending steep grades.
- Do not over rev the engine when shifting to a lower gear.

# Drive systems

## All Wheel Drive (AWD)

The vehicle may have an AWD system.

- AWD operates automatically without any action required by the driver.
- If the front drive wheels slip, the rear wheels automatically drive the vehicle.
- There may be a slight noise during hard use. This is normal.
- flashes on the instrument panel when the AWD system is temporarily disabled.

  If flashes briefly and then stops, this is normal. It does not indicate a system fault.
- If flashes continuously, a malfunction has occurred. Contact a Holden Dealer.

### Difficult conditions

It is better to stop the vehicle well before a hazard and check on foot before driving the vehicle through it.

If the ground is very uneven or rocky, do not grip the steering wheel rim with your thumbs. A sudden steering kickback due to an unseen obstacle could cause injury.

Ensure all luggage and equipment is securely tied down when driving over rough or uneven surfaces.

# Brakes

## Antilock Brake System (ABS)

The ABS:

- Continuously monitors the vehicle's braking system preventing the wheels from locking up.
- Allows maximum braking effort while full steering control is retained, even in the event of panic braking.

**⚠Warning**

Do not let this special safety feature tempt you into taking risks when driving. Traffic safety can only be achieved by adopting a responsible driving style. The vehicle's speed should always be adjusted to suit road and traffic conditions.

### Operation

ABS operation is noticeable by pulsing of the brake pedal and the noise of the regulation process.

The initial self-check may also be audible.

Keep the brake pedal fully pressed throughout the braking process, without pumping it. Pumping the brake pedal can reduce brake efficiency.

**Caution**

When the ignition is turned on, the (ABS) is illuminated for a few seconds.

If (ABS) does not extinguish, or illuminates when driving, a malfunction has occurred.

**Note** The vehicle's brake system remains operational, but without ABS assistance. Have a Holden Dealer check the system as soon as possible.

### Brake pedal

Where possible, avoid braking hard.

Smooth operation of the brake pedal will increase the life of the brakes and reduce wear.

If the brakes do not operate normally, contact a Holden Dealer.

## Electric Park Brake (EPB)

The vehicle has an Electric Park Brake (EPB).

**⚠Warning**

Driving while (!) is on may cause injury to yourself and others. Have the brake system checked immediately if this occurs.

- The EPB can be activated when the ignition is on or off.
- The switch is located in the centre console.
- When the ignition key is turned to **ON**, (P) illuminates for a short time.
- If (P) does not come on or flashes:

  Stop the vehicle as soon as possible and contact a Holden Dealer immediately.
- Do not operate the switch repeatedly when the engine is off, to avoid draining the battery.

- Before leaving the vehicle, apply the park brake and ensure Ⓟ is illuminated on the instrument panel.

### Applying the EPB

1. Lift the switch (O) on the centre console. See Instrument panel overview on page 45.

   Ⓟ flashes then illuminates on the instrument panel.

If the EPB is applied while the vehicle is in motion:

- A chime sounds.
- The vehicle will decelerate as long as the switch is held in the up position.
- Releasing the EPB switch during deceleration will release the park brake.
- If the switch is held up until the vehicle comes to a stop, the EPB will remain applied.

If Ⓟ flashes continuously, either:

- The EPB is only partially applied.
- The EPB is released.
- There is a problem with the EPB:
  1. Release the EPB.
  2. Apply it again.

  If Ⓟ continues to flash:
  1. Do not drive the vehicle.
  2. Contact a Holden Dealer.

If Ⓘ is illuminated, apply the EPB:

1. Lift up on the EPB switch.
2. Hold in the up position.

   Full application of the EPB may take longer than normal.
3. Continue to hold the switch until Ⓟ illuminates.

   If Ⓘ illuminates, contact a Holden Dealer.

If the EPB fails to apply:

1. Block the rear wheels to prevent vehicle movement.

### EPB release

To release the EPB:

1. Turn the ignition on.
2. Apply and hold the brake pedal.

   If the brake pedal is not applied:

   A chime will sound and 🔧 will be displayed.
3. Press the EPB switch.

   Ⓟ extinguishes.

If Ⓘ is illuminated, release the EPB:

1. Push down on the EPB switch.
2. Hold in the down position.

   EPB release may take longer than normal.
3. Continue to hold the switch until Ⓟ extinguishes.

   If Ⓟ illuminates, contact a Holden Dealer.

**Note**
Driving with the park brake on can overheat the brake system and cause premature wear or damage to brake system parts.

Ensure that the park brake is released and (!) is off before driving.

### Automatic EPB release

The EPB will automatically release if the following occur:

- The ignition is turned on
- An attempt is made to drive away

Avoid rapid acceleration when the EPB is applied.

# Ride control systems

## Electronic Stability Control (ESC)

The ESC:

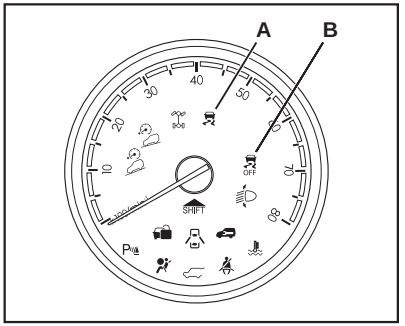
- Is an advanced feature that works in conjunction with the vehicle's ABS and includes the Traction Control System (TCS).
- Improves driving stability in any driving situation.
- Assists in maintaining vehicle stability when the vehicle's grip level is exceeded such as a sudden lane change, slippery or unexpected road conditions.
- Alters engine power and/or braking on specific wheels, improving the vehicle's steering control and power delivery, on wet or slippery roads, particularly on snow and ice.

**⚠Warning**

The use of tyres that are a different size or construction i.e. mud or snow tyres, may adversely affect the ESC system.

Do not let this special safety feature tempt you into taking risks when driving. Traffic safety can only be achieved by adopting a responsible driving style. The vehicle's speed should always be adjusted to suit road and traffic conditions.

## Operation

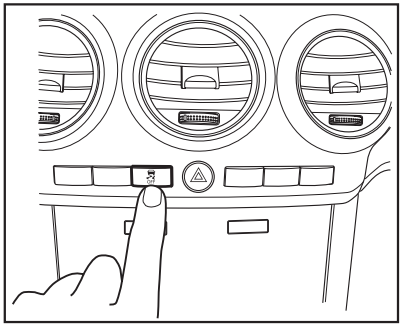



The ESC:

- Operates automatically in very unstable conditions.

  It does not operate under normal driving conditions.
- (A) flashes while the ESC is operating.
- OFF (B) illuminates when the ESC is switched off.
- If the lamp remains on, a malfunction has occurred. Contact a Holden Dealer.

## Switching ESC on and off



In certain circumstances, it may be helpful to turn the ESC off, e.g. in deep mud or sand or if the vehicle is bogged. It may be possible to get more traction from a slightly spinning wheel.

To turn the ESC off:

- Press OFF.

  OFF illuminates.

**Note**
If the lamp does not illuminate, contact a Holden Dealer.

## Hydraulic Brake Assist system (BA)

BA recognises how rapidly the accelerator is released and the brake pedal is applied.

BA initiates ABS earlier, shortening the stopping distance required.

## Electronic Brakeforce Distribution (EBD)

EBD senses the vehicle load (both passengers and luggage) and optimises rear braking force.

EBD works in combination with ABS to prevent excessive braking and locking of the rear wheels. Braking pressure is transferred between the front and the rear axles.

### Traction Control System (TCS)

TCS uses sensors that detect sudden wheel spin.

If one wheel is about to spin, braking is applied to transfer rotation to a wheel with better traction. This improves performance when starting off and accelerating.

### Anti-Rollover Protection (ARP)

When the vehicle becomes extremely unstable, ARP helps maintain stability by detecting excessive vehicle roll.

ARP maximises the brake force on the wheels, slowing the vehicle down and reducing the amount of vehicle roll.

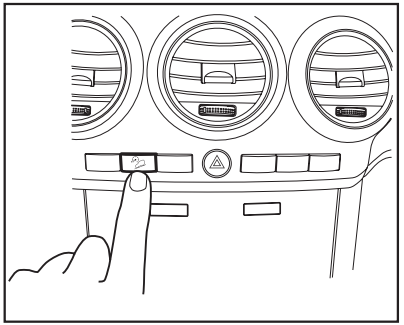
## Descent Control System (DCS)

The DCS:

- Is only for driving down steep gradients
- Works in conjunction with the ABS to maintain the slow speed descent of the vehicle
- Works in conjunction with the cruise control system
- Can be used when driving forwards or in reverse
- Is designed for off road driving when moving over steep gradients
- May malfunction if used unnecessarily

  Do not use DCS when driving on normal roads
- When activated, causes strong vibrations and noise from the brake system

### DCS on



To activate the DCS:

- Press .

  illuminates green on the instrument panel.

  During operation, flashes.

**Note**

Do not press the accelerator pedal when DCS is activated.

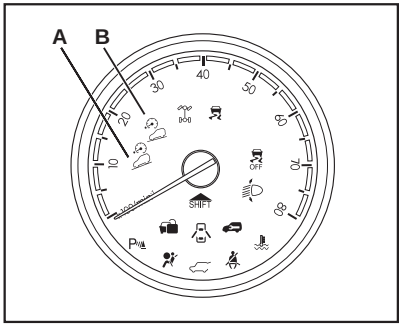
**Caution**

If stopping the vehicle on a slope or slowing to less than 5 km/h, the brake pedal can be pressed.

It will briefly deactivate the DCS.

DCS will re-activate a few seconds after the brake pedal is released.

## DCS not ready warning




If illuminates amber (A) on the instrument panel, a malfunction has occurred. Contact a Holden Dealer.

## DCS off

To deactivate the DCS:

- Press again.
  extinguishes.

**Note**

- The DCS will not operate when the vehicle speed is over 50 km/h.

# Cruise control

The vehicle may have cruise control.

The cruise control:

- Maintains the vehicle's speed without pressure on the accelerator pedal
- Will only operate at speeds above approximately 40 km/h
- Controls are located on the right side of the steering column
- Disengages by pressing the brake or clutch (manual transmission) pedal
- Disengages when Traction Control (TC) begins to limit wheel spin. Switch the cruise control back on when road conditions allow.

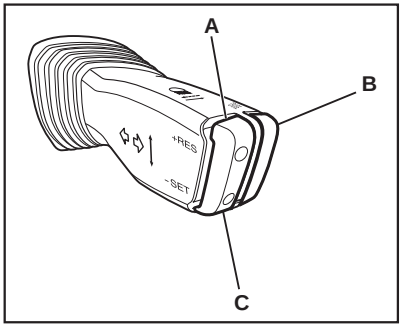
**⚠Warning**

Do not use the cruise control when road or driving conditions require varying speeds. A consistent speed isn't practical in heavy, varying traffic or on winding, slippery or rough roads.

The cruise control does not apply the vehicle's brakes. Therefore the vehicle may gain speed when going down steep hills.

When climbing steep hills (particularly when towing) it is possible for the vehicle to lose speed. You may need to switch off the cruise control and use the accelerator pedal.

## Setting cruise control




1. Press **ON/OFF** (B).
2. Accelerate to the desired speed (above 40 km/h).
3. Press **-SET** (C) and release.
   illuminates on the instrument panel.
4. Take your foot off the accelerator pedal.

## Resuming a set speed

A set speed is stored and is able to be resumed if the brake pedal has been pressed.

When the vehicle's speed is above 40 km/h, press **+RES** (A) briefly to resume the stored speed.

**Note**

- If **+RES** (A) is pressed and held, the vehicle's speed will increase until the button is released or the brake pedal is applied.
- Do not hold **+RES** (A), unless you want the vehicle to go faster.

## Increasing speed

If the cruise control system is already activated, either:

1. Press the accelerator pedal.

   Press **-SET** (C).

   Release **-SET** (C) and the accelerator pedal.

2. Press and hold **+RES** (A) until the desired speed is reached.

   Release **+RES** (A) .

3. To increase the vehicle speed in small amounts:

   Briefly press **+RES** (A) .

   Release **+RES** (A) .

   Each increase is approximately 2 km/h.

## Reducing speed

If the cruise control system is already activated:

1. Press **-SET** (C) until the lower speed is reached.

   Release **-SET** (C).

2. To decrease the vehicle speed in small amounts:

   Briefly press **-SET** (C).

   Each decrease is approximately 2 km/h.

## Passing another vehicle

Press the accelerator pedal to increase the vehicle speed.

To return to the set speed, remove your foot from the accelerator pedal.

## Using cruise control on hills

When driving up a hill, press the accelerator pedal to maintain the set speed.

When driving down a hill, press the brake pedal or shift to a lower gear to decrease the vehicle's speed.

**Note**

Applying the brakes disengages the cruise control.

### Disengaging cruise control

There are two ways to switch cruise control off:

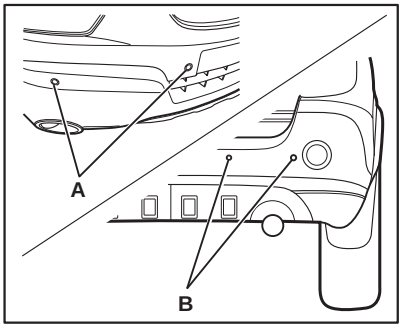
1. Press lightly on the brake pedal or press lightly on the clutch pedal (manual transmission).
2. **ON/OFF** (B).

### Erasing speed memory

The cruise control set speed memory is erased by pressing **ON/OFF** (B) or the ignition is turned off.

# Object detection systems

## Park Assist (PA)




The PA system is able to detect and indicate obstacles at the rear of the vehicle when reversing.

The system consists of four sensors on the front bumper (A), four sensors on the rear bumper (B), a control unit and a speaker in the vehicle's interior.

**⚠Warning**

The driver is always responsible for taking care and attention while manoeuvring the vehicle. The PA is only an aid and is neither intended to, nor able to take over any responsibility.

The park sensors may not be able to detect all objects under every condition e.g. objects too close to the vehicle, objects above or below the sensors, or objects with a surface that absorbs ultrasonic waves. Additionally, some ambient conditions like ultrasonic waves or heavy rain can cause disruptive reflections from an object's surface. Such objects may not be detected.

Always manoeuvre the vehicle slowly to allow yourself sufficient time to react. The warning tones will sound only while the vehicle's speed is below 5 km/h.

## Activating

The system is activated automatically when the following occur:

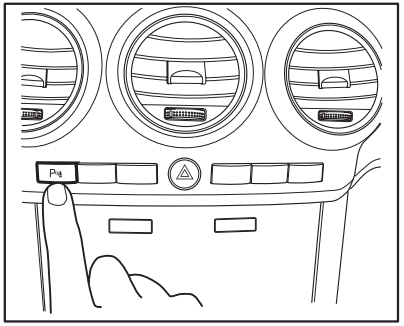
- The ignition is turned on
- Drive or reverse gear is selected
- The park brake is released
- The vehicle's speed is below 8 km/h

A short single confirmation alarm will sound to confirm that the sensors are operational.

## Deactivating

The system will be deactivated automatically when the vehicle's speed is above 8 km/h.

Manual deactivating:



1. Press P.

   The light on the button illuminates.

**Note**

The light on the button will also illuminate when:

- The park brake is applied while the vehicle is moving.
- The sensors on the front or rear bumpers are dirty.

  If the light continues to illuminate after cleaning the sensors have the system checked by a Holden Dealer.

2. Press P again to activate the PA system.

   The light extinguishes.

## Fault

A fault in the system is indicated by:

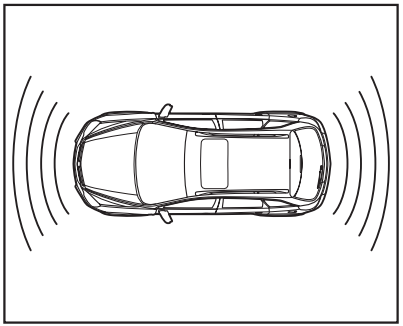
- The alarm sounding three times continuously when there are no objects around the rear bumper
- P illuminating while driving

1. Move the vehicle with care.
2. Check and clean the sensors.
3. If the problem persists, contact a Holden Dealer.

### Approximate range of sensors

| Alarm | Sensing distance from bumper (approximately) | | Alarm tone |
|---|---|---|---|
| | Front bumper | Rear bumper | |
| 1st alarm | 120 cm | 180 cm | --beep--beep-- |
| 2nd alarm | within 90 cm | within 90 cm | -beep-beep-beep-beep- |
| 3rd alarm | within 60 cm | within 60 cm | beep beep beep beep |
| 4th alarm | within 30 cm | within 30 cm | alarm stays on |

### Alarm tones



- The sensors start to detect objects at approximately 120 cm at the front and 180 cm a the rear.
- Alarm tones sound with a long pause between tones.
- As the vehicle moves closer to the object the pause between the alarm tones becomes shorter.
- When the rear bumper is approximately 30 cm from the object the alarm tone sounds continuously. See the table above.

**Notes on operation**

- If the sensors receive other ultrasonic signals e.g. metallic sounds or exhaust brake noise from heavy commercial vehicles, the system may not work properly.
- The system may not activate if the sensors are frozen or covered with dirt.
- Clean dirty sensors with a soft sponge and clean water.
- Do not hit or direct high pressure water directly at the sensors as they may be damaged.
- The system may not operate correctly when the vehicle is driven over uneven surfaces.
- The system may not recognise sharp objects, thick winter clothes or other materials which absorb ultrasonic waves.

- The system is not designed to be used with a permanently installed tow bar.
- When using a removable tow bar, the system can be deactivated by pressing **P**.
- Remove the tow bar when not in use.

# Fuel

**⚠Danger**

EXHAUST WARNING – CARBON MONOXIDE POISONING

Exhaust gases can produce carbon monoxide, a dangerous gas, which can cause unconsciousness and even death to both humans and animals.

Gases could be inhaled if the exhaust system on your vehicle is faulty.

To protect against exhaust gases entering the vehicle, the exhaust system and body should be inspected:

- Each time the vehicle is serviced.
- Whenever a change is noticed in the sound of the exhaust system.
- Whenever the exhaust system, underbody or rear of the vehicle is damaged.

Take the vehicle to a Holden Dealer if you think the vehicle needs inspecting for any of the above reasons.

Do not sit (or leave children or pets) in a parked vehicle for any extended period of time with the engine running. Turn the fan on using any setting that brings outside air into the vehicle. Do not run the engine in an enclosed area (such as the garage) any longer than is needed to move the vehicle.

**⚠Danger**

PETROL

Petrol is extremely flammable and highly explosive.

Always switch off the engine and any mobile phones when refuelling.

Do not smoke or allow open flames or sparks near the vehicle when refuelling.

If fuel fumes are smelt while driving, the cause should be found and corrected without delay by a Holden Dealer.

Static electricity can ignite fuel vapour. Only use pumps, hoses and containers that are properly grounded when filling up with fuel.

To avoid injury, to you and to others, read and follow all instructions on the petrol station pump.

**Caution**

USE OF FUEL CONTAINING ETHANOL (PETROL ENGINES)

When purchasing such fuel, we recommend that the vehicle be operated on fuel containing no more than 10% ethanol. Purchasing fuel from a reputable fuel retailer may reduce the risk of purchasing fuel with more than 10% ethanol or fuel which contains abnormal fuel properties.

Under no circumstances should fuel containing more than 10% ethanol be used. Use of such fuels may result in engine malfunction, starting and operating difficulties and materials degradation. These adverse effects could result in permanent damage to the vehicle and personal injury.

It is also important to note that when ethanol blends are used, fuel consumption can be expected to increase due to the lower energy content of ethanol.

The use of fuel containing more than 10% ethanol may also affect your New Vehicle Warranty to the extent that Holden considers that the fuel affects the specifications and quality of your vehicle.

The use of any fuel, other than the fuel specified below, may seriously damage the vehicle and may void the warranty. See Fuel types on page 123. Only clean fuel of good quality should be used.

**Caution**

USE OF FUEL CONTAINING ETHANOL (DIESEL ENGINES)

Under no circumstances should you use diesel fuel containing ethanol.

Use of such fuels may result in engine malfunction, starting and operating difficulties and materials degradation.

These adverse effects could result in permanent damage to your vehicle and personal injury.

# Fuel types

## Petrol engines

Use unleaded petrol of 91 Research Octane Number (RON) rating or higher.

High octane unleaded petrol (premium etc.) may be used, but is not required for the vehicle.

The use of fuel with a lower octane rating than recommended may cause engine knock.

Continued use of such fuel can cause engine damage and void the warranty.

If you detect a heavy engine knock even when using fuel of the recommended octane rating, have the engine checked.

## Diesel engines

Diesel engines must be operated only on commercially available diesel fuel meeting the requirements of Euro standards EN590.

The use of bio-diesel containing up to 10 % fatty acid methyl ester (“FAME”) also known as “B10” is also permitted provided that the FAME meets the Euro Standard EN14214, and the resultant B5 blend meets Euro Standard EN590.

Do not use marine diesel oils or heating oils.

The flow and filterability of diesel fuel are temperature-dependent. When temperatures are low, use diesel fuel with guaranteed winter properties.

**Caution**

Use only bio-diesel blends containing up to a maximum of 10 % FAME that meets Euro standards EN590.

Purchasing fuel from a reputable fuel retailer may reduce the risk of purchasing fuel with more than 10 % FAME or fuel which contains abnormal fuel properties.

Use of any other bio-diesel that does not have the certification referred to above, or has a FAME content exceeding 10 %, may cause serious damage to your vehicle (including engine failure).

Damage attributable to the use of non certified bio-diesel is not covered by your New Vehicle Warranty. In no event will Holden be responsible or bear any liability for any damage or loss that may arise in connection with the use of any fuel that does not meet this specification.

## Refuelling

Fill the fuel tank at the intermediate or fast fill rate.

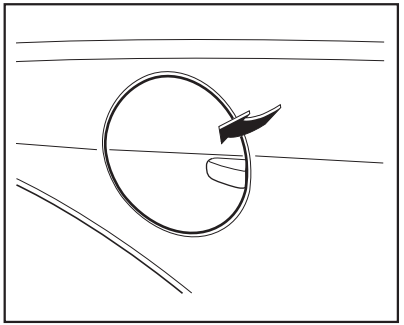
Do not add any more fuel after the fuel filler first clicks off as fuel blows back. This allows room for the fuel to expand inside the tank.

Spilt fuel on the vehicle's exterior surfaces can damage the paint. Wash it off as soon as possible.

### Tank capacity

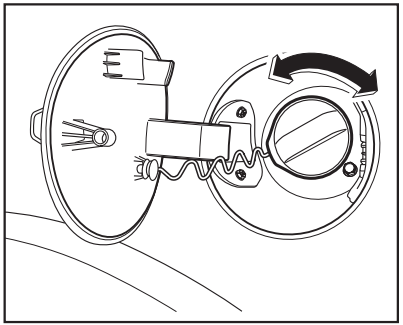
See Capacities on page 181.

### Fuel filler door



1. Stop the engine.
2. Unlock the doors.
3. Open the fuel filler door by hand.

## Fuel cap



1. Remove the cap slowly rotating anticlockwise.

**⚠Warning**

If the cap is opened rapidly while pressure in the tank is high, fuel may spray out from the tank. Rotate it slightly to release the pressure from inside the tank.

**Note**

Store the fuel cap on the inside of the fuel filler door while refuelling.

2. After refuelling, rotate the fuel cap clockwise until a clicking sound is heard.
3. Push the fuel filler door closed making sure that it latches.

## Petrol filler nozzle restrictor

A petrol nozzle restrictor is fitted to ensure that only unleaded petrol is used.

**Caution**

The use of fuel, other than the fuel specified, may cause serious damage to your vehicle and may void your warranty. Only clean fuel of good quality should be used.

# Towing

## Trailer towing

The word trailer is used throughout this section and includes all types of towed vehicles, such as caravans, boat trailers or any other special purpose trailer.

**Maximum towing capacities (kg) – braked trailer**

| Engine | 2.4L Petrol | | 2.2L Diesel |
|---|---|---|---|
| | Automatic | Manual | Automatic |
| | 1,500 | 1,500 | 1,700 |

**Note** The maximum unbraked towing capacity for all vehicles is 750 kg.

### Towing

Handling, durability and economy may be affected by towing a trailer.

For recommended and mandatory towing equipment, see Towing and loading equipment on page 128.

A Holden Dealer will assist with supply and installation of towing equipment.

### Overloading

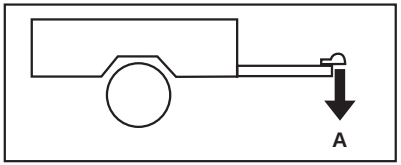
Never exceed the loads given for the towing equipment fitted to the vehicle.

All mandatory equipment must be fitted, otherwise you may void the New Vehicle Warranty, to the extent that Holden considers the overloading or missing equipment to have affected the specifications or quality of the vehicle. See Towing and loading equipment on page 128.

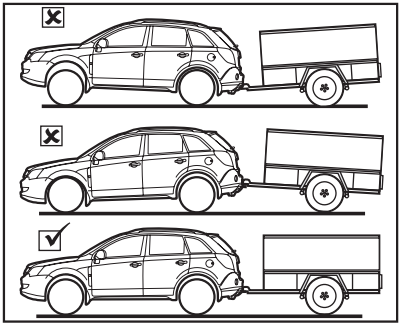
**⚠Warning**

Holden towing equipment is recommended where it is available. Where it is not available, no recommendation is made as to the make of equipment which should be used. Holden will not accept liability for defects occurring in towing equipment not marketed by Holden or for defects in the vehicle arising from the use of such equipment or for loss or injury caused by use of such equipment. The use of such equipment may void your New Vehicle Warranty, to the extent that Holden considers the non-recommended equipment affects the specifications or quality of your Holden vehicle. It is inadvisable to mix and match different brands of towing equipment, as equipment is usually designed as an integrated package.

## Trailer recommendations




A trailer hitched to a vehicle places a weight on the tow bar. This weight is called the tow bar ball weight or tow ball load (A).



- For single axle trailers, the tow ball load should be 10% of the loaded trailer weight. For heavy trailers with more than one axle, the tow ball load should be 5 % - 10 % of the loaded trailer weight.
- If the tow ball load exceeds 158 kg refer to the mandatory equipment table on page 128.
- Adjust by moving items forwards or backwards within the trailer, to change the balance.
- Check the tow ball load before coupling the trailer to the towing vehicle.

- Axle loads must not be exceeded when the tow ball load is included. See Axle loads on page 181.
- If maximum axle loads are exceeded, weight should be removed from the rear of the vehicle and transferred onto the trailer.
- If the load balance cannot be corrected, use a load distribution hitch.

## Towing and loading equipment

| Tow load | Tow ball load | Mandatory equipment |
|---|---|---|
| **Up to 750 kg** | Less than or equal to 158 kg | Holden 1,700 kg rated tow bar |
| | | Holden trailer wiring harness |
| **Up to 750 kg** | More than 158 kg | Holden 1,700 kg rated tow bar |
| | | Holden trailer wiring harness |
| | | Load distribution hitch |
| **Between 750 kg and 1,700 kg** | Less than or equal to 158 kg | Holden 1,700 kg rated tow bar |
| | | Holden trailer wiring harness |
| | | Brakes on the trailer |
| **Between 750 kg and 1,700 kg** | More than 158 kg | Load distribution hitch |
| | | Holden 1,700 kg rated tow bar |
| | | Holden trailer wiring harness |
| | | Brakes on the trailer |

- A load distribution hitch transfers load to the vehicles front wheels aiding steering and brake performance.
- Do not exceed the maximum towing capacities specified. See Maximum towing capacities on page 126.
- Do not exceed the total front or rear axle loads specified. See Axle loads on page 181.

## Towing precautions

- When heavily loading the vehicle or when towing, inflate tyres to the maximum recommended pressure. See Tyre placard on page 159.
- Ensure that a load distribution hitch is correctly distributing the tow ball load. See Towing and loading equipment on page 128.
- Tighten the tow ball retaining nut to 140 Nm (Newton metres) and check the torque frequently.
- Vehicles handle differently when towing. Take a couple of short distance trips with the trailer before taking a long trip.
- Have the vehicle and trailer correctly maintained and serviced, with particular attention given to the brakes, tyres, suspension, wheel bearings, towing coupling and lighting.
- Use an extended-arm mirror on both sides of the vehicle if necessary.
- Headlamps may need re-aiming after the loaded trailer has been hitched, particularly if a load distribution hitch is not used.
- Use a lower gear and the brakes, when descending steep hills.
- Do not use axle-mounted hitches.
- Ensure that the tow bar does not obscure the rear number plate. Remove the tow bar tongue when not required for towing.
- If a tow bar is removed, have any mounting holes in the underbody sealed to prevent entry of exhaust fumes, dust and water.
- The Park Assist (PA) will automatically deactivate when a trailer lighting plug is connected to the vehicle. It will automatically activate again when the plug is removed.

### Trailer brakes

- Trailer brakes are mandatory on trailers weighing 750 kg and over when loaded.
- Consult the appropriate regulatory body in your State or Territory for the legal requirements of trailer brakes.

### Running-in when towing

It is recommended that a new vehicle be driven for at least 1,500 km before towing.

If towing is necessary before this, do not exceed 80 km/h. This also applies if the vehicle is fitted with a new or reconditioned engine, transmission or rear axle.

### Off road loading and towing (All Wheel Drive AWD vehicles)

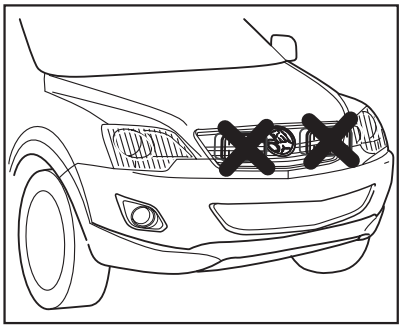
To reduce the risk of damage to the vehicle (and trailer) and to improve safety when operating off-road, reduce the vehicle speed and minimise the load being carried or towed.

**Vehicle maintenance**

More frequent vehicle maintenance is required when using the vehicle to tow. Refer to the Service/Warranty Booklet in the vehicle's glove box.

# Conversions and add-ons

## Fitting accessories



Do not fit any accessory over the upper or lower air intakes at the front of the vehicle, as this may affect engine cooling.

## Fitting roo/nudge bars

**⚠Warning**

Fitment of roo or nudge bars is not recommended as it may affect crash performance, airbag performance and engine cooling.

## Cargo barrier

Use only a Holden approved cargo barrier available from a Holden Dealer.

The Holden cargo barrier has been compatibility tested with the vehicle's design, including the Holden side curtain airbag system.

Fitting any other type of cargo barrier may interfere with the deployment of the side curtain airbag system. It may reduce its effectiveness when protecting passengers in the event of a collision.

# Vehicle care

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# General information

## Emission information

### Petrol engine

The emission control systems are designed to reduce the amount of hydrocarbons (HC), carbon monoxide (CO), and oxides of nitrogen (NOx) that are emitted from the engine and fuel system into the atmosphere. HC and NOx, when exposed to sunlight under certain conditions, contribute to smog. In addition, CO is toxic when it becomes highly concentrated in the air.

## Emission control system

Major emission control systems that the vehicle may have are:

1. Evaporative emission control system. This system is designed to prevent the escape of fuel vapour from the fuel system and recycle the vapours through the normal combustion process.
2. Crankcase emission control system. This system is designed to prevent blow-by gases from escaping into the atmosphere and recycle them through the combustion process.
3. Exhaust emission control system. The various components of this system operate collectively to limit HC, CO and NOx emissions in the exhaust gas. The exhaust emission control system consists of components including electronic control of spark, fuel and idle speed. In addition, vehicles have a catalytic converter and closed loop mixture control system.

## Owner responsibility

The engine, engine control system and exhaust system of the vehicle must not be modified in any way.

**⚠Warning**

Any person who removes, modifies or hinders any part of the emission control system may be contravening Australian Design Rules. It is also illegal to drive a vehicle modified in this way.

## First drive

When the vehicle is driven for the first time, wax and oil on the exhaust system may evaporate, producing smoke-like emissions that should not be inhaled. Allow wax and oil to evaporate while the vehicle is in the open air.

## Maintenance requirements

Have the vehicle serviced at the frequency shown in the Maintenance schedule, in the Service/Warranty Booklet.

It is recommended that servicing be carried out by an authorised Holden Dealer who will maintain the vehicle's emission control system as per the Service/Warranty Booklet.

## Diesel engine

### Diesel particle filter (DPF)

The diesel particle filter system collects particulates from the exhaust gases to minimise discharge of soot to the atmosphere.

To prevent clogging of the filter, the soot particles are burnt off at regular intervals through a self cleaning process where additional fuel is injected into the engine cylinders to increase the particle filter temperature to approximately 600°C.

This allows deposited soot to be oxidized or burnt off to carbon dioxide ($CO^2$).

This process usually takes between 10 and 12 minutes but may take up to 25 minutes depending on driving conditions.

Increased engine speed at idle, operation of engine cooling fan and emissions of smell and smoke are considered to be normal conditions during the self cleaning process. Fuel consumption may also be higher during this period.

Under certain driving conditions, e.g. when operated for prolonged periods at low engine loads, the system cannot clean itself automatically.

If the cleaning of the filter is required and if previous driving conditions did not enable automatic cleaning, it will be indicated by the control indicator .

See Diesel particle filter (DPF) light on page 56.

## Cleaning process

To activate the cleaning process, continue driving and when road conditions and traffic permits, increase vehicle speed above 50 km/h until turns off (10 to 25 minutes).

Do not switch off the engine until the cleaning process is complete.

The control indicator extinguishes as soon as the self-cleaning operation is complete.

Turning the engine off while is on or flashing will prevent the cleaning process from completing. This will result in increased fuel consumption and a reduction in engine oil life.

If also illuminates, cleaning is not possible. Contact a Holden Dealer.

For more information refer to Holden.com.au/owners-info/faqs

## Reducing fuel consumption

### Engine

Have the vehicle serviced regularly in accordance with the maintenance schedule in the Service/Warranty Booklet.

### Tyre pressure

Keep the tyres at the recommended pressures. See Wheels and tyres on page 159.

### Wheel alignment

Maintain correct front and rear wheel alignment.

### Warm ups and idling

Avoid long engine warm ups. They are unnecessary and waste fuel.

Avoid long engine idling.

### Accelerating, driving and braking

Accelerate gently and avoid rapid starts.

Drive the vehicle at steady speeds where possible (after the initial running-in).

It is desirable to reach top gear as soon as possible, but do not force the engine to labour in top gear.

### Riding the brake

Do not rest your foot on the brake pedal when you do not intend to brake.

### Air conditioning

Switch off the air conditioning when not required, however, once every 2 weeks, with the engine running, switch the air conditioning on for 5 to 10 minutes to lubricate the seals (even in winter).

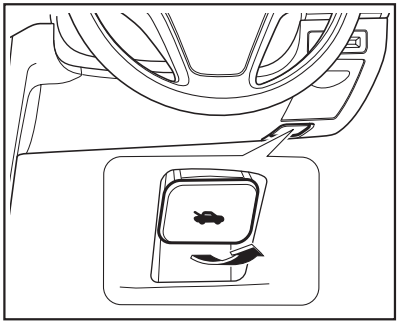
### Loading

Unnecessary weight increases fuel consumption, especially when accelerating.

# Vehicle checks

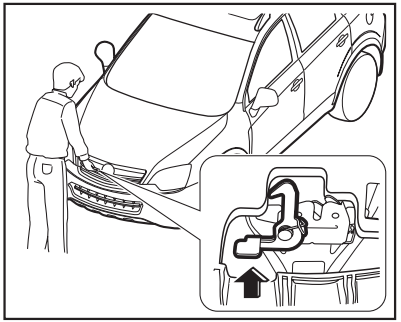
## Bonnet

### Opening



1. Pull the lever rearwards.

   A safety catch prevents the bonnet from opening completely.



2. Reach in under the bonnet opening, near the centre of the bonnet.
3. Move the safety catch upwards.
4. Raise the bonnet gently.

   Gas struts automatically take over to lift and hold the bonnet open.

### Closing

**⚠Warning**

To avoid injury and/or damage to the vehicle, check each time, before the bonnet is closed, that the contact area is unobstructed.

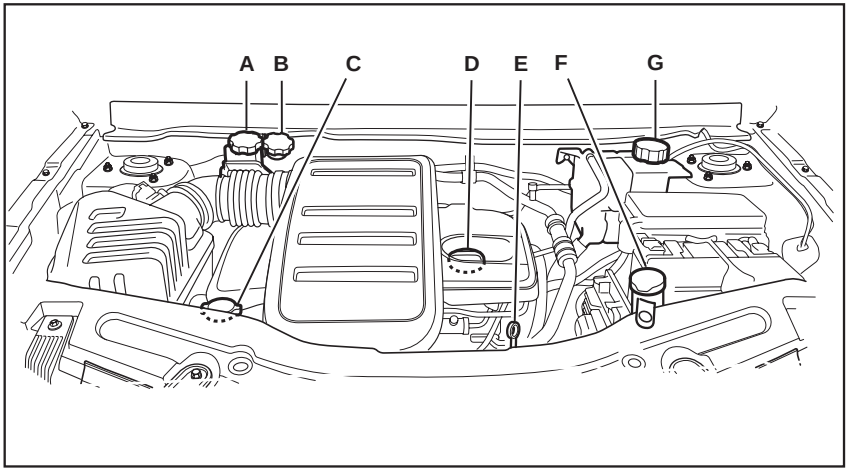
1. Lower the bonnet gradually until it is approximately 30 cm from closed.
2. Push down until the bonnet latches.
3. Check that the bonnet is engaged.

**⚠Warning**

If while driving you notice that the bonnet has not been properly closed, pull the vehicle over to the side of the road at the earliest possible moment and close the bonnet correctly.

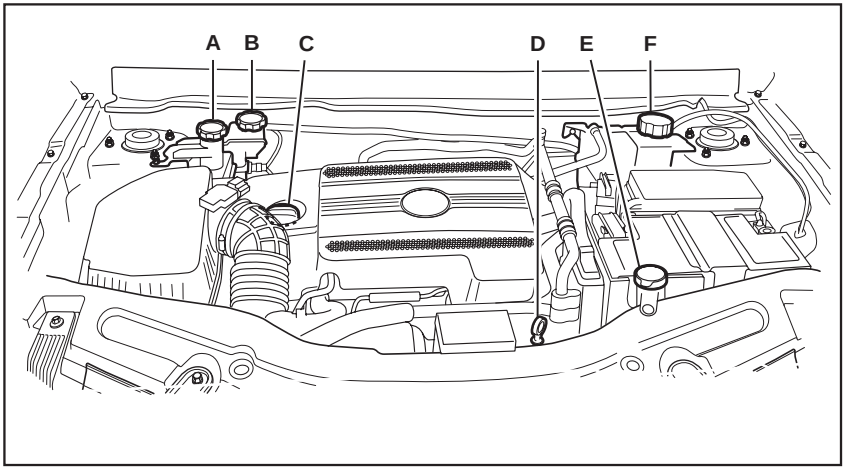
## Engine compartment overview

### Petrol




A. Brake fluid reservoir, see page 145
B. Clutch fluid reservoir, see page 146
C. Power steering fluid reservoir, see page 144
D. Engine oil filler cap, see page 137
E. Dipstick for engine oil, see page 137
F. Washer fluid reservoir, see page 145
G. Coolant reservoir, see page 139

## Diesel




A. Power steering fluid reservoir, see page 144
B. Brake fluid reservoir, see page 145
C. Engine oil filler cap, see page 137
D. Dipstick for engine oil, see page 137
E. Washer fluid reservoir, see page 145
F. Coolant reservoir, see page 139

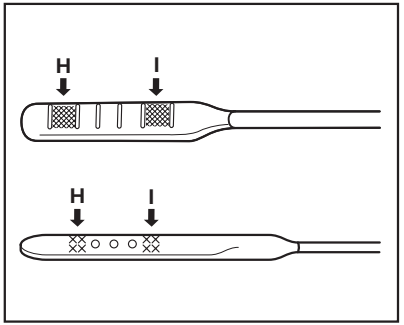
## Engine oil

- Keep the engine oil at correct levels.
- Check the oil level at regular intervals, such as when refuelling.
- If illuminates, check the oil level immediately. See Engine oil pressure light on page 56.

### Checking fluid level

The engine must be at operating temperature and the ignition turned off for a few minutes, to allow the oil to settle.

1. Park the vehicle on a level surface.
2. Remove the dipstick and wipe clean.
3. Insert the dipstick firmly.




Different dipsticks are used depending on engine variant.

H. Add mark

I. Upper mark

4. Wait for a few seconds then remove and read the oil level.

   The level should be between the area/marks (H) and (I).

   Add oil if the level is at area/mark (H).

5. Insert the dipstick firmly.

### Adding engine oil

See Capacities on page 181.

1. Remove the engine oil filler cap (C).
2. Add enough oil to reach within the area/mark (I).
3. Wait a few minutes.
4. Check the oil level again.
5. Replace the engine oil cap and dipstick.

**Note**

Use only engine oil that is approved to the dexos™ specification or an equivalent engine oil of the appropriate viscosity grade. Engine oils approved to the dexos™ specification will show dexos on the container.

Failure to use the recommended engine oil or equivalent may result in engine damage not covered by the New Vehicle Warranty.

Use of substitute engine oils if dexos™ is unavailable: in the event that dexos™ approved engine oil is not available at an oil change or for maintaining the correct oil level, you may use substitute engine oil meeting the alternative specifications. See Recommended fluids, lubricants and parts on page 177.

Use of oils that do not meet the dexos™ specification may result in reduced performance under certain circumstances.

## Engine oil system

The engine is dependent on oil for lubricating critical areas subjected to high friction loads:

- The cylinder walls
- The pistons and rings
- The valve stems

Some oil from these areas is carried into the combustion chamber and burnt during the combustion process.

Other factors that contribute to the rate of oil consumption in the engine:

- Worn pistons, rings, valve stems and guides
- The way in which the vehicle is operated
- The quality and grade of oil
- The oil level and dilution

### Operation of the vehicle

High speed driving and heavy towing increases engine temperature, which lowers oil viscosity, causing more oil to reach the combustion chamber and get burnt away.

### Quality and grade of oil

If an oil is too ‘thin’ (low viscosity), the oil consumption will increase. Use only the recommended grades of oil. See Recommended fluids, lubricants and parts on page 177.

### Oil level

Maintain the required oil level.

Over filling causes:

- Oil to splash onto the cylinder walls
- Excess oil to be drawn into the combustion chamber and burnt
- Oil in the sump to become aerated causing damage to the engine

### Dilution

When a vehicle is frequently driven on short trips, the engine often fails to reach normal operating temperatures:

- The oil becomes diluted by fuel and moisture that settles in the oil pan.
- This may raise the oil level creating a false reading on the engine oil dipstick.

For example, in a vehicle that has accumulated 1,500 km of short distance or intermittent city operation and has consumed a normal amount of oil, the level may not have dropped from the area/mark (I), due to dilution. If this vehicle is driven for some distance at highway speeds on a warm day, the dilution elements evaporate, resulting in a sudden drop in oil level.

If you are still concerned that the engine has excessive oil consumption, contact a Holden Dealer.

**Note**
Engine oil consumption should not be judged before 10,000 km.

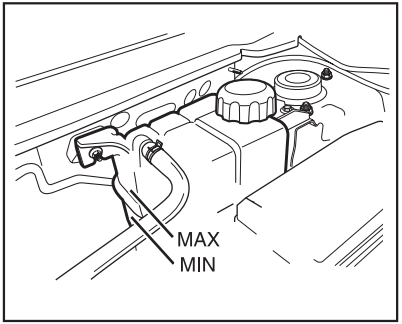
### Automatic transmission fluid level

The fluid level will be checked when the vehicle is serviced. Refer to the Service/Warranty Booklet. It does not require checking in between the scheduled services.

## Engine coolant

### Checking fluid level

Check at least once a week by looking at the level from outside the container.




Refill the coolant reservoir:

- If the level is lower than the **MIN** line
- When the engine is cool
- To the **MAX** line

Check the cooling system for leaks first.

**⚠Warning**

Do not over fill the coolant reservoir.

Only use specified coolant, see Recommended fluids, lubricants and parts on page 177. Do not mix different coolants as this may damage the engine cooling system.

Remove the coolant reservoir filler cap only.

Always check the coolant level when the engine is cold. Steam and scalding liquids from a hot cooling system can blow out and cause serious burns.

Do not spill coolant on the vehicle's exterior surfaces as it can damage the paintwork. If you do, wash it off immediately.

**Adding engine coolant**

For engine coolant specifications and water-to-coolant ratio, see Recommended fluids, lubricants and parts on page 177. Always use the specified ratio.

1. Mix a solution of Holden coolant and clean fresh water.
2. Turn the ignition key to **OFF**.
3. Undo the cap on top of the coolant reservoir.
4. Add the coolant solution.
5. Secure the cap.

**Note**
Failure to use coolant meeting Holden's specification, or maintaining the specified concentration, may result in voiding the warranty.

In emergency situations, plain clean fresh water may be used temporarily until the correct Holden coolant is obtained. Replace as soon as possible from the nearest Holden Dealer.

**How the engine coolant works**

- The coolant contains special corrosion inhibitors.
- Coolant helps the cooling system in hot weather by increasing the boiling point.
- Coolant protects against freezing down to –30°C, provided the specified concentration is maintained.

If the coolant requires regular topping up, contact a Holden Dealer.

**⚠Warning**

Corrosion inhibitors and antifreeze fluids are poisonous. Use extreme care when handling. If swallowed, seek medical attention.

If the engine overheats or loses coolant, see Engine overheating on page 141.

The engine may temporarily operate at high temperatures during demanding operating conditions, especially on hot days, including:

- Climbing a long hill
- Stopping immediately after high speed driving
- Idling for long periods in traffic
- Towing a heavily laden trailer

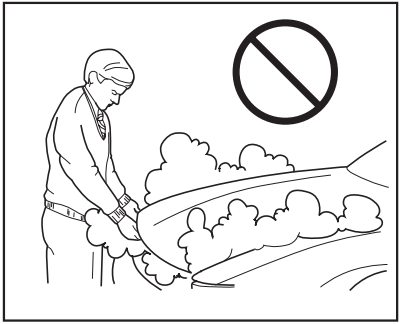
Switch the air conditioning off in these conditions.

## Engine overheating

**⚠Warning**

Immediate action is required if the engine overheats. This may be indicated by the temperature gauge needle moving to the red zone, by steam escaping from under the bonnet, a loss of power or a loud knocking or pinging noise.

Continued driving even for a short time could result in a fire or vehicle damage.



**⚠Danger**

Do not open the bonnet if you can see or hear steam or coolant escaping from the engine compartment. Wait until no steam or coolant can be seen or heard before opening the bonnet.

Do not remove the cooling system cap if the engine and radiator are still hot. Scalding fluid and steam can be blown out under pressure which could cause serious burns.

## Cooling system checks

When no steam is visible:

If illuminates for more than 30 seconds:

1. As soon as it is safe to do so, stop the vehicle on the side of the road.
2. Switch off the air conditioning.
3. Leave the engine idling for about 3 minutes.
4. Exit the vehicle and audibly check that the cooling fan is working.

If the fan is working and remains illuminated:

1. Turn the ignition key to **LOCK** and remove the key.
2. Open the bonnet.
3. Let the engine idle until it is cool.
4. Check the coolant level.

If the coolant level is low, there may be a leak in the cooling system:

1. Look for leaks at the radiator hoses and connections, heater hoses and connections, radiator and water pump.

   Take care when checking these areas as they may still be hot.
2. Check the fan belt.
3. If a major leak or other problems are found, do not run the engine until all problems have been repaired.
4. If you do not find any problems, refill the coolant reservoir.
   See Adding engine coolant (overheated engine) on page 143.

**⚠Danger**

Do not remove the coolant reservoir cap if the engine and radiator are still hot. Scalding fluid and steam can be blown out under pressure which could cause serious burns.

**Caution**

If you see or hear steam coming from the engine, stop and turn the ignition key to **LOCK**. Do not open the bonnet until the engine has cooled down.

If the fan is not operating and steam is visible:

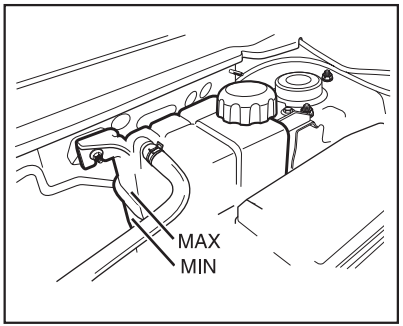
1. Turn the ignition key to **LOCK**.
2. Move away from the vehicle without opening the bonnet.
3. Let the engine cool down.
4. When steam is no longer visible, carefully open the bonnet.
5. Have the vehicle serviced as soon as possible.

## Adding engine coolant

### Overheated engine

**⚠Warning**

The cooling system is pressurised, so to avoid injury please read all of the following instructions before attempting to add coolant.




Without undoing the coolant reservoir filler cap, look at the level from outside the container.

When the engine is hot:

- The level should be above the **MIN** mark.
- If the level is at or below the **MIN** mark, add coolant:
  1. Allow the engine to cool slightly.
  2. Cover the cap with a thick cloth.
  3. Remove the cap very slowly to allow any pressure to escape.
  4. If water is added it must be clean.
  5. Top up the coolant reservoir to the **MAX** mark while the engine is idling.
  6. Replace the coolant reservoir filler cap.

**Caution**

Do not spill coolant on the vehicle's exterior surfaces as it can damage the paintwork. If you do, wash it off immediately.

- If extinguishes, resume driving at a reduced speed.
- Return to normal driving after 10 minutes.
- If the engine overheats again, contact a Holden Dealer as soon as possible.

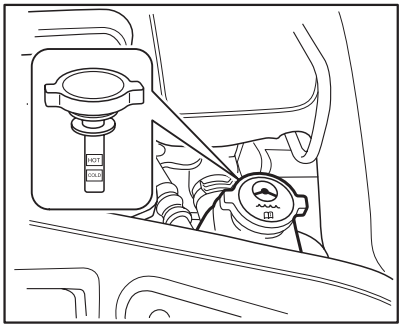
## Power steering fluid

**Caution**

Do not drive the vehicle without the proper amount of power steering fluid. It can result in system damage and costly repair.

### Checking fluid level

1. Wipe the cap and the top of the reservoir clean.
2. Remove the cap.




When the engine is cold, the fluid level should be within the **COLD** area.

When the engine is hot, the fluid level should be within the **HOT** area.

### Adding power steering fluid

For power steering fluid specifications, see Recommended fluids, lubricants and parts on page 177.

1. Turn the ignition key to **LOCK**.
2. Wipe the cap and the top of the reservoir clean.
3. Remove the cap.
4. Add enough fluid to bring the level up to **COLD** or **HOT**.

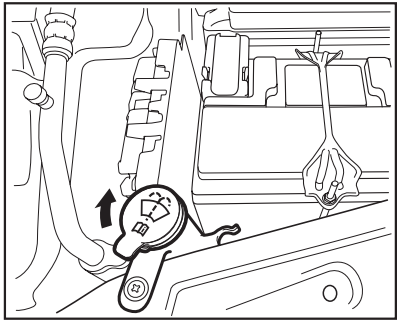
   Do not overfill.
5. Replace the cap tightly.
6. Clean up any spilt fluid.

**Note**

If the power steering fluid reservoir requires constant topping up, contact a Holden Dealer immediately.

## Washer fluid

### Checking fluid level



Check the fluid level weekly and top up if necessary.

### Adding washer fluid

1. Use the correct amount of washer fluid additive. Refer to a Holden Dealer.

   Do not use ordinary soap or detergent as they froth up and damage the wiper rubbers.
2. Secure the cap.

## Brake fluid

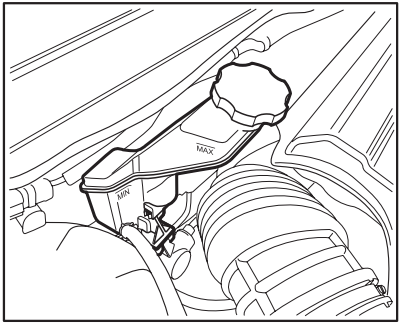
**⚠Warning**

Do not let brake fluid contact your skin or eyes. If you do get it in your eyes or on your skin, wash the affected skin thoroughly with soap and water, or flush eyes immediately with water and seek medical attention.

Do not spill brake fluid on the vehicle's exterior surfaces as it can damage the paintwork. If you do, wash it off immediately.

### Checking fluid level

Check once a week by looking at the level from outside the container. For location, see Engine compartment overview on page 135.




The level should be between the **MIN** and **MAX** area.

If the fluid level is correct, do not remove the reservoir cap, as brake fluid exposed to the atmosphere will quickly absorb moisture.

### Adding brake fluid

Use heavy duty brake fluid. See Recommended fluids, lubricants and parts on page 177.

1. Turn the ignition key to **LOCK**.
2. Wipe the sides of the cap clean.
3. Rotate anticlockwise to remove.
4. Top up with heavy duty brake fluid.

**⚠Warning**

Use only new brake fluid. Use of old, used or inferior brake fluid may endanger the functioning of the brake system.

5. Secure the cap and clean up any spilt fluid.

If the brake fluid requires regular topping up, contact a Holden Dealer immediately.

## Clutch/brake fluid

(Manual transmission)

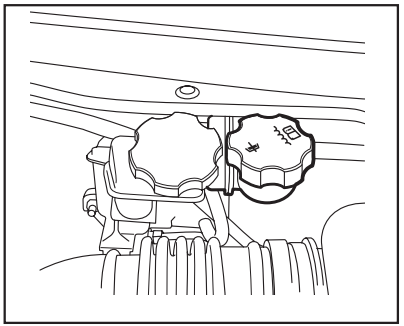
**⚠Warning**

Do not let clutch//brake fluid contact your skin or eyes. If you do get it in your eyes or on your skin, wash the affected skin thoroughly with soap and water, or flush eyes immediately with water and seek medical attention.

Do not spill clutch/brake fluid on the vehicle's exterior surfaces as it can damage the paintwork. If you do, wash it off immediately.

### Checking fluid level

Check once a week by looking at the level from outside the container. For location, see Engine compartment overview on page 135.



The level should be between the **MIN** and **MAX** area.

If the fluid level is correct, do not remove the reservoir cap, as clutch/brake fluid exposed to the atmosphere will quickly absorb moisture.

### Adding fluid

Use heavy duty clutch/brake fluid.

See Recommended fluids, lubricants and parts on page 177.

1. Turn the ignition key to **LOCK**.
2. Wipe the sides of the cap clean.
3. Rotate anticlockwise to remove.
4. Top up with heavy duty brake fluid.

**⚠Warning**

Use only new clutch/brake fluid. Use of old, used or inferior clutch/brake fluid may endanger the functioning of the brake system.

5. Secure the cap and clean up any spilt fluid.

If the clutch/brake fluid requires regular topping up, contact a Holden Dealer immediately.

## Battery

**⚠Warning**

Batteries emit an explosive gas mixture which may be ignited by sparks or naked flames. Therefore keep sparks and flames away from the battery at all times. Never smoke near a battery.

Batteries contain sulphuric acid. If acid contacts skin or clothing, flush immediately with a lot of water. In case of eye contact, flush with plenty of water and seek medical assistance immediately. Battery acid also damages paint and fabrics. To minimise damage, wash off immediately.

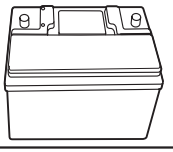
Take care with all metal objects and tools including items you may wear (e.g. jewellery, ring and metal watch bands) near battery terminals. Metal objects that touch battery terminals can cause sparks and serious heat burns to the user or wearer.

Never disconnect the battery when the engine is running.

Always connect the red cable to the positive (+) battery terminal and the black cable to the negative (-) battery terminal. Connecting the battery cables to the wrong terminals can result in injury and damage to the vehicle.

Wear eye protection such as safety glasses and avoid leaning over the battery.

### Battery maintenance



The battery is maintenance free.

The fluid level does not need to be checked.

To extend the life of the battery:

- Keep the battery mounted securely.
- Keep the top of the battery dry and clean.
- Keep the terminals and connections clean, tight and coated with petroleum jelly or terminal grease.
- Immediately rinse off any spilled electrolyte using a solution of water and baking soda.
- If the vehicle is not going to be driven for an extended period of time, disconnect the cable from the negative (-) terminal of the battery to prevent discharge, and charge the battery every six weeks.

## Diesel fuel filter

The vehicle may have a diesel fuel filter.

When the water level in fuel filter is excessive, illuminates on the instrument panel.

**Caution**

The engine and fuel system may be seriously damaged if the vehicle is driven while is illuminated.

Contact a Holden Dealer immediately to have the fuel filter drained.

**Note**

The fuel filter will be drained when the vehicle is serviced. Refer to the Service/Warranty Booklet.

## Diesel fuel system bleeding

The system requires bleeding if the vehicle has run out of fuel.

**Note**

- A minimum of 10 L of diesel fuel must be in the tank for the bleeding operation to work correctly.
- It is possible to restart the engine if the tank has been run dry. A delayed start can be expected.

1. Turn the ignition key to **ON** for approximately 5 seconds.
2. Turn the ignition key to **LOCK**.
3. Repeat Steps 1 and 2 five times.
4. Turn the ignition key to **START** for approximately 40 seconds.
5. If the engine does not start, wait at least 5 minutes and try again.

   If the engine still does not start, contact a Holden Dealer.

# Bulb replacement

Contact a trained service technician if unsure about the bulb replacement process.

When replacing bulbs:

- Turn the ignition key to **LOCK** and remove the key.
- Turn off related switches.
- Fit bulbs of the specified wattage only.
- Do not touch bulbs or reflectors with bare hands.
- Clean stained bulbs with methylated spirits.
- As headlamp aiming is a safety item it is recommended that you have it carried out by a Holden Dealer.

### Bulbs to be changed by a Holden Dealer

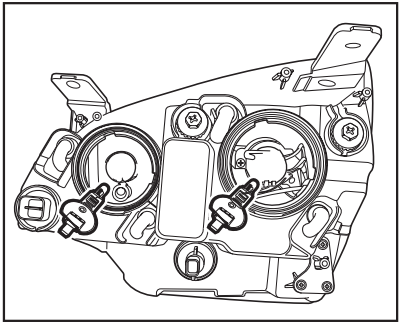
- Front fog lamps
- Rear high level stop lamp

**Caution**

Condensation may temporarily appear on the inside of exterior lamp lenses after rain or washing the vehicle. Condensation occurs when there is a temperature difference between the inside and outside of the lamp allowing a fine mist on the inside surface of the lamp lens. This condensation will disappear when the vehicle is in a dry environment or the lamp is on. If water does collect in the lamp, contact a Holden Dealer.

## Headlamps (55 W)

1. Open the bonnet.
2. Remove the scrivets from the upper radiator cover and remove.

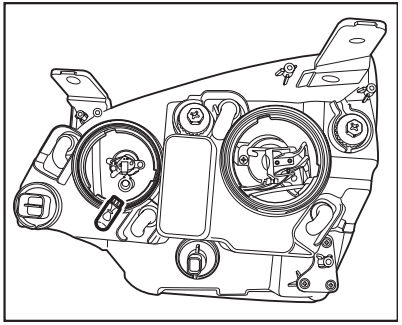


3. Remove the bolts securing the headlamp assembly and carefully remove the headlamp.
4. Disconnect the headlamp connectors.
5. Remove the cap covering the headlamp bulb.

6. Release the spring retaining the bulb.
7. Remove the bulb and replace.
8. Reverse the steps to reinstall the headlamp assembly.

## Parking lamps (5 W)

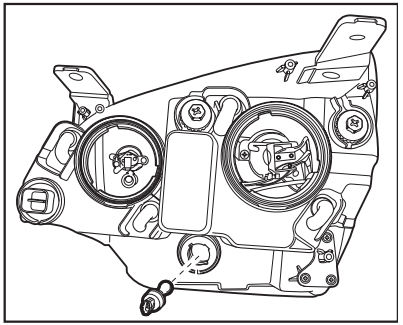
1. Open the bonnet.
2. Remove the headlamp assembly. See Headlamps on page 149.



3. Remove the cap covering the parking lamp bulb.
4. Pull out the parking lamp bulb assembly located next to the headlamp bulb.
5. Pull the bulb straight out of the bulb holder.
6. Reverse the steps to reinstall the headlamp assembly.

## Front turn signal lamps (21 W)

1. Open the bonnet.
2. Remove the headlamp assembly. See Headlamps on page 149.

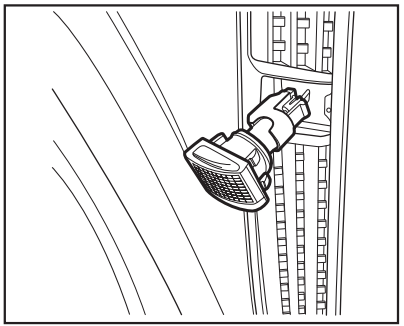


3. Rotate the front turn signal bulb holder anticlockwise and pull it out of the lamp housing.
4. Press the bulb inward and rotate it anticlockwise to remove it from the bulb holder.
5. Install a new bulb into the holder by pressing it in and rotating it clockwise.

6. Install the holder into the lamp housing by rotating it clockwise.
7. Reverse the steps to reinstall the headlamp assembly.

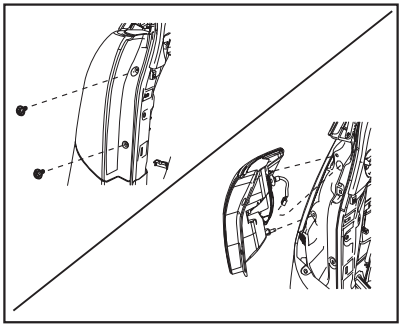
## Side turn signal lamps

(5 W)



1. Using a flat-bladed screwdriver, carefully pry the side turn signal lamp assembly away from the fender.
2. Rotate the bulb holder anticlockwise.
3. Remove the bulb from the lamp housing by pulling the bulb straight out of the holder.
4. Push the replacement bulb into the bulb holder and rotate the bulb clockwise.
5. Push the side turn signal lamp assembly back into its original position ensuring it is securely fastened.

## Rear tail lamps

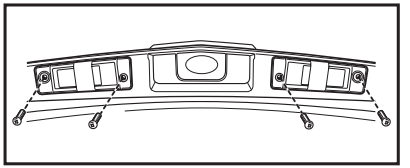


1. Open the tailgate.
2. Remove the two screws and the lamp assembly.
3. Remove the bulb holder by rotating it anticlockwise.
4. Push the bulb inward and rotate it anticlockwise.
5. Insert the replacement bulb into the holder and rotate it clockwise.
6. Replace the bulb holder into the lamp housing and rotate it clockwise to secure.
7. Refit the lamp assembly into the vehicle securing with the two screws.

Rear tail lamp wattages:

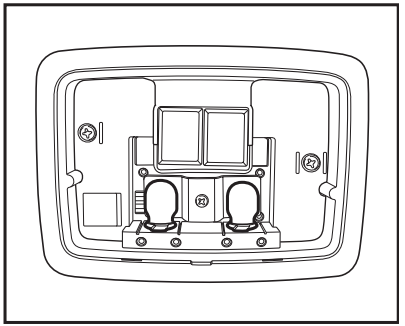
- Reverse (16 W)
- Tail (5 W)
- Brake (21 W)
- Rear turn signal (21 W)

## License plate lamps (5 W)



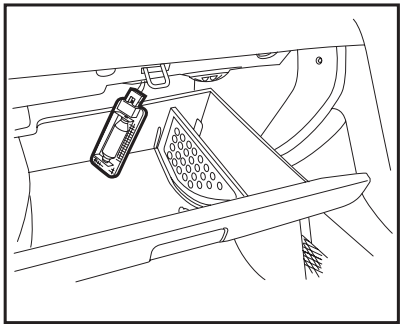
1. Remove the two screws and the lamp lens.
2. Rotate the bulb holder anticlockwise and remove it from the housing.
3. Pull the bulb straight out of the bulb holder and install the replacement bulb.
4. Rotate the bulb holder clockwise to reinstall it into the lamp housing.
5. Refit the lamp lens, securing with the two screws.

## Interior and map lamps
(10 W)



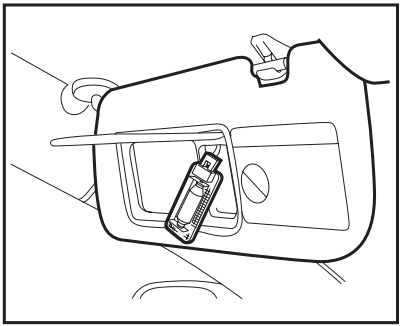
1. Using a flat-bladed screwdriver, carefully pry the lamp lens away from the housing.
2. Remove the bulb and install the replacement.
3. Refit the lamp lens.

## Glove box lamp (10 W)



1. Open the glove box.
2. Using a flat-bladed screwdriver, carefully unclip the lamp assembly away from the top of the glove box.
3. Remove the bulb and install the replacement.
4. Refit the lamp assembly.

## Vanity mirror lamp



1. Using a flat-bladed screwdriver, carefully unclip the lamp assembly away from the vanity mirror housing.
2. Remove the bulb and install the replacement.
3. Refit the lamp assembly.

# Electrical system

## Fuses and relays

### Fuse block

Fuse blocks are located:

- In the engine compartment
- In the floor console on the driver side

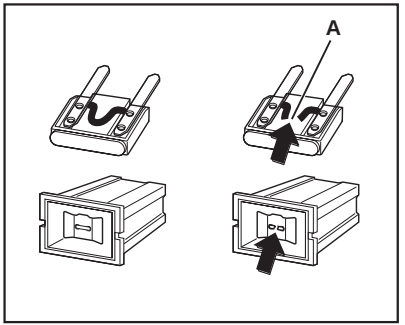
Spare fuses and a fuse extractor are located in the engine compartment fuse block.

### Relays

Relays are located in the engine compartment fuse block.

Their position and function is shown on the inside of the fuse cover.

**A blown fuse**

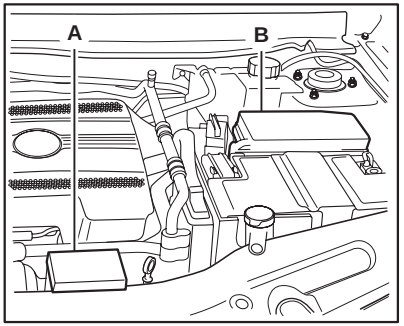



1. Pull out the suspect fuse.
2. Examine the wire in the fuse.

   A blown fuse can be recognised by its melted wire (A).

   If a fuse blows twice in a row, contact a Holden Dealer.

**Engine compartment**




- Diesel auxiliary fuse block (A)
- Engine compartment fuse block (B)

The engine compartment may have a diesel auxiliary fuse block.

The fuse blocks contain circuit fuses, main fuses and relays.

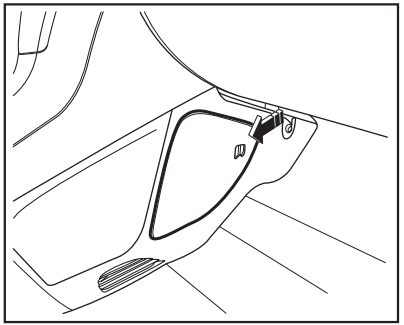
To remove the cover:

1. Press the catch on the side of the fuse block towards the engine.
2. Release the two tabs at the opposite side.

3. Ensure the cover is correctly fitted after replacing or inspecting fuses.

   Fuse amperages (amps) are shown on the inside of the fuse cover.

## Floor console

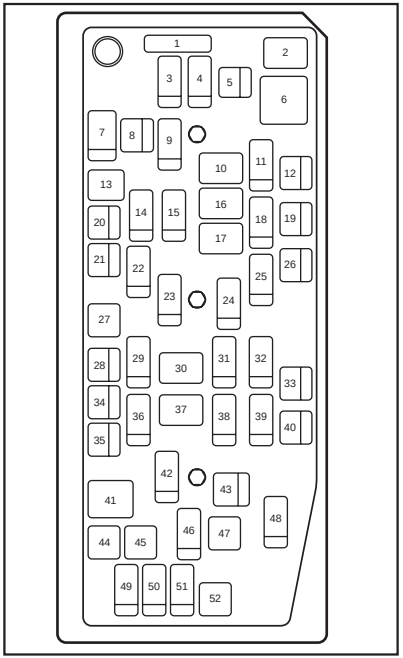


To access the fuse cover:

1. Open the driver side door.
2. Pull the latch rearwards to disengage the cover.

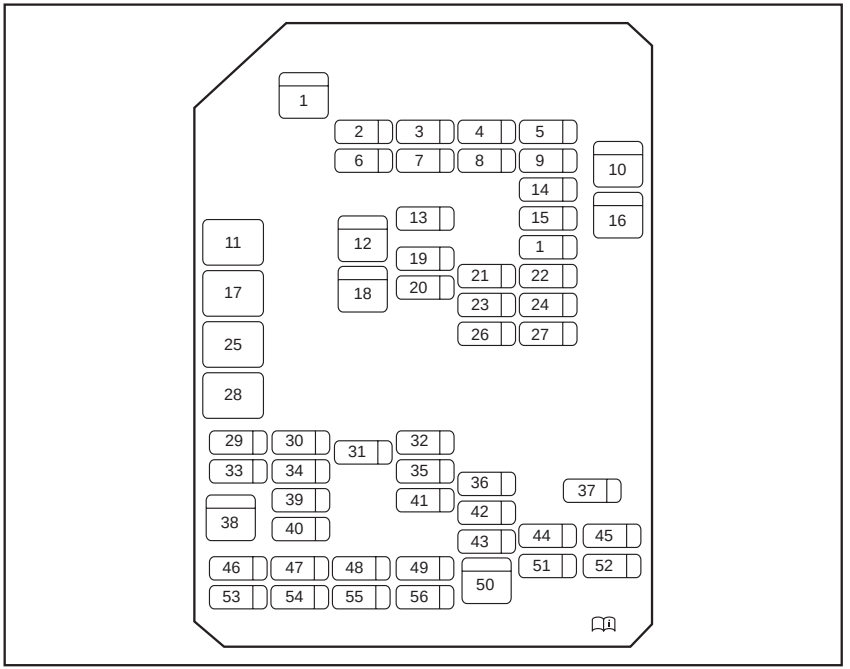
   The fuse amperages and positions are shown on the inside of the fuse cover.
3. Replace the cover after use.

## Engine compartment fuses and relays




| | | |
|---|---|---|
| 1 | PWM FAN | 80A |
| 2 | FAN1 RELAY | |
| 3 | IGNITION COIL A | 15A |
| 4 | IGNITION COIL B | 15A |
| 5 | FAN1 | 40A |
| 6 | FAN2 RELAY | |
| 7 | ECM | 15A |
| 8 | FAN3 | 40A |
| 9 | ECM PWR TRN | 30A |
| 10 | PWR/TRN RELAY | |
| 11 | ENG SNSR | 15A |
| 12 | STRTR | 20A |
| 13 | FAN3 RELAY | |
| 14 | TCM | 15A |
| 15 | SPARE | |
| 16 | STRTR RELAY | |
| 17 | FUEL/VAC PUMP RELAY | |
| 18 | ABS | 20A |
| 19 | BATT3 | 60A |
| 20 | SPARE | |
| 21 | EPB | 40A |
| 22 | STOP LAMP | 20A |
| 23 | FRT WPR | 25A |
| 24 | A/C | 10A |
| 25 | BCM | 10A |
| 26 | FUEL/VAC | 20A |
| 27 | STOP LAMP RELAY | |
| 28 | BATT2 | 60A |
| 29 | LO BEAM RH | 10A |
| 30 | WPR CNTRL RELAY | |
| 31 | PARK LP RH | 10A |
| 32 | PARK LP LH | 10A |
| 33 | SPARE | |
| 34 | ABS | 50A |
| 35 | BATT1 | 60A |
| 36 | LO BEAM LH | 10A |
| 37 | WPR SPD RELAY | |
| 38 | HDLP WASHER | 20A |
| 39 | TRLR PRK LAMP | 10A |
| 40 | REAR WIPER | 20A |
| 41 | REAR DEFOG RELAY | |
| 42 | HTD WASH/MIR | 15A |
| 43 | REAR DEFOG | 30A |
| 44 | LO BEAM RELAY | |
| 45 | HIGH BEAM RELAY | |
| 46 | FRT FOG | 15A |
| 47 | HDLP WSHR RELAY | |
| 48 | PRK LP RH | |
| 49 | HORN | 15A |
| 50 | HI BEAM LH | 10A |
| 51 | HI BEAM RH | 10A |
| 52 | FRT FOG RELAY | |

## Floor console fuses and relays

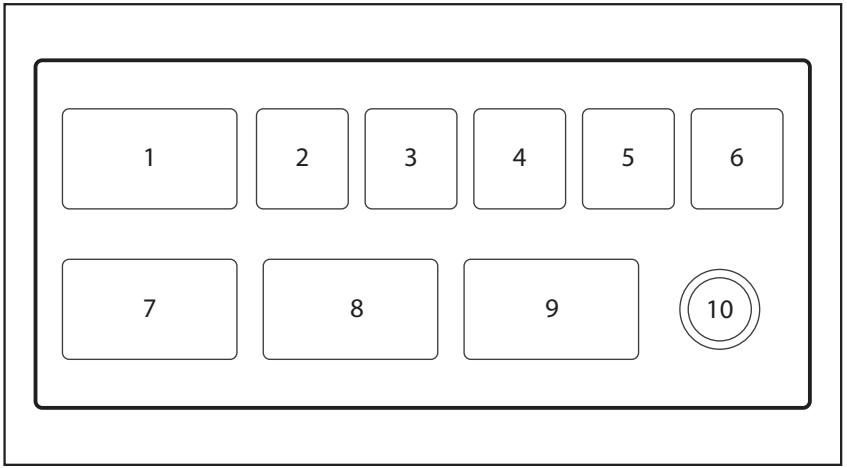



| | | |
|---|---|---|
| 1 | DRVR PWR SEAT | 30A |
| 2 | S/ROOF FOLDING MIRROR | 10A |
| 3 | FSCM/MENT SOL | 20A |
| 4 | F/DOOR LOCK | 15A |
| 5 | DR/LCK | 20A |
| 6 | TRLR | 20A |
| 7 | APO JACK (CONSOLE) | 20A |
| 8 | MTO SEAT PWR | 20A |
| 9 | BCM (PRK/TRN) | 15A |
| 10 | PASS PWR WNDW | 30A |
| 11 | ACC/RAP RELAY | |
| 12 | S/ROOF BATT | 20A |
| 13 | CIGAR | 20A |
| 14 | BCM (STOP) | 15A |
| 15 | BCM (CTSY) | 15A |
| 16 | DRV PWR WNDW | 20A |
| 17 | CIGAR/APO JACK RELAY | |
| 18 | SPARE | |
| 19 | APO JACK REAR CARGO | 20A |
| 20 | RUN/CRNK | 15A |
| 21 | SPARE | |
| 22 | AMP | 30A |
| 23 | BCM (TRN SIG) | 15A |
| 24 | DRL | 15A |
| 25 | RUN RELAY | |
| 26 | FRT WSR | 20A |
| 27 | L/GATE | 10A |
| 28 | RUN/CRNK RELAY | |
| 29 | HEATING MAT SW | 20A |
| 30 | FSCM | 10A |
| 31 | AWD/VENT | 15A |
| 32 | SPARE | |

| | | |
|---|---|---|
| 33 | RUN2 | 10A |
| 34 | ISRVM/ACM | 5A |
| 35 | RR FOG | 15A |
| 36 | BCM (DIMMER) | 15A |
| 37 | LOGISTIC MODE | 10A |
| 38 | HVAC BLWR | 40A |
| 39 | CLSTR | 10A |
| 40 | SDM (IGN_1) | 10A |
| 41 | PWR DIODE | 5A |
| 42 | XBCM | 10A |
| 43 | TRLR BATT | 30A |
| 44 | RVS/HVAC/DLC | 15A |
| 45 | PWR/MODING | 2A |
| 46 | SSPS | 10A |
| 47 | XBCM | 10A |
| 48 | BCM (INT LIGHT) TRLR FOG | 20A |
| 49 | IPC | 10A |
| 50 | SPARE | |
| 51 | SDM (BATT) | 10A |
| 52 | SPARE | |
| 53 | OSRVM | 2A |
| 54 | AUDIO/KEY CAPTURE | 10A |
| 55 | RADIO | 15A |
| 56 | STR/WHL SW | 2A |

## Diesel auxiliary fuse and relay block

The engine compartment may have a diesel auxiliary fuse block.



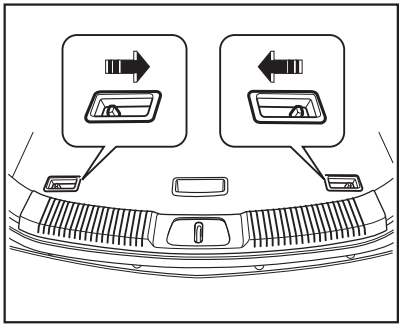

| | | |
|---|---|---|
| 1 | RELAY PTC 3 | |
| 2 | PTC 3 | 40A |
| 3 | PTC 2 | 40A |
| 4 | PTC 1 | 40A |
| 5 | F/F HTR | 30A |
| 6 | GPCU | 60A |
| 7 | RELAY PTC 2 | |
| 8 | RELAY PTC 1 | |
| 9 | RELAY F/F HTR | |
| 10 | B+ | |

**⚠Warning**

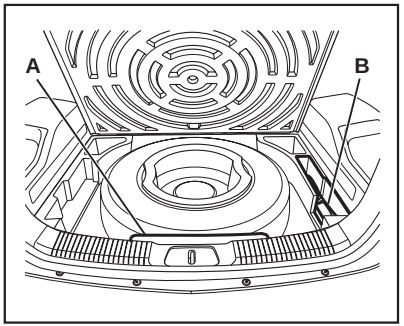
When replacing a fuse, ensure the replacement fuse is of the specified amperage. Never install a wire or similar as it could damage electrical components and cause a fire.

# Vehicle tools

## Tools



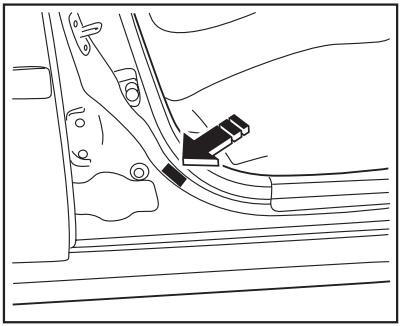
The vehicle has a tool kit, located in a compartment in the floor of the load area.




A Jack
B. Tool kit

# Wheels and tyres

## Tyre placard



The correct pressures for tyres are shown on the tyre placard in the driver's door opening (B pillar).

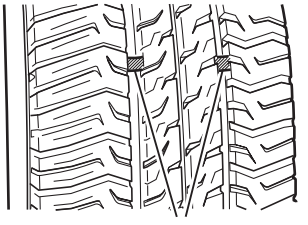
## Tyre pressure

- Check the air pressure of tyres (including the spare) weekly, to ensure occupant safety, as well as reducing fuel consumption and increasing the life of the tyres.
- Use a tyre pressure gauge to check the tyres. Simply looking at the tyres is not sufficient.
- For constant long distance or rough road driving, daily checking is recommended.
- If the vehicle is heavily loaded, the recommended pressure for the tyres is increased.
- Check pressures when the vehicle has been stationary for over 3 hours. If tyre pressures must be checked immediately after driving more than 2 km, increase tyre placard pressure by 10 %.
- Tyre pressures may need to be increased depending on the load on the vehicle. See Vehicle weight on page 180.
- If the vehicle is loaded to half the maximum payload, the tyres should be inflated half way between the minimum and maximum pressures given on the tyre placard.
- Replace any valve dust caps or extensions.
- Check the condition of the tyre tread and inspect for stones or abnormal wear.

### Tyre and rim condition

- Do not drive over sharp edges to avoid tyre and rim damage and possible tyre blowout.
- Drive over edges slowly and at right angles, if possible.
- When parking, ensure the tyres are not pressed against the edge of the curb.
- Check the tyres regularly for damage, stones, punctures, cuts, cracks, bulges etc. Check the rims for damage. Contact a Holden Dealer, if in doubt.

## Tread depth




The tyres originally fitted to the vehicle have built-in tread indicators which show up when the tyres are worn.

Replace the tyres when:

- They are worn to the point where the tread indicators (A) appear.
- The cord or fabric is showing.
- The tread or sidewall is cut, split or cracked deep enough to expose the cord or fabric.
- The tyre has a bump or bulge in it, indicating some kind of internal damage.

- The tyre has a puncture, cut or other damage which can not be repaired because of the size or location of the damage.

**⚠Warning**

The use of tyres that are a different size or construction i.e. mud or snow tyres, may adversely affect the ESC system.

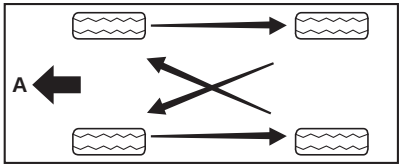
Do not attempt to drive on a flat tyre more than is necessary to stop safely. Driving even a short distance can damage the tyre and wheel beyond repair. Tyres which have been repaired or retreaded are not capable of being driven safely at high speeds. Therefore, their use is not recommended.

## Tyre rotation

Front and rear tyres can wear differently depending on:

- Types of roads driven on
- Driving habits
- Tyre pressures
- Wheel alignment and balance

New tyres should be fitted in pairs to the front. If replacing only one tyre, pair it on the same axle with the least worn of the other three.




A. Front of vehicle

Follow the diagram for the correct rotation pattern.

If the wheels are rotated it is recommended to check the balance at the same time.

## Buying new tyres

Refer to the tyre placard on the vehicle for tyre size and load rating.

Using a different size or type of tyre may affect:

- Ride
- Handling
- Speedometer accuracy
- Vehicle ground clearance
- Tyre clearance
- Snow chain clearance

Tyres with heavy treads and those made for better grip in the wet, should only be operated within the limits recommended by the manufacturer.

Replacing the factory fitted wheels and tyres with non-genuine wheels and tyres may affect the New Vehicle Warranty as well as the vehicle's insurance policy.

Contact a Holden Dealer for advice on suitable tyres.

## Wheel alignment and tyre balance

Improper wheel alignment or balance can cause:

- Tyres to wear fast and unevenly
- The vehicle to pull to one side
- Vibration

If any of these problems exist, have the vehicle checked by a Holden Dealer.

## Tyre changing

**⚠Warning**

Use the jack only for lifting the vehicle when changing wheels.

Do not jack a vehicle with a trailer attached. Remove the trailer first.

Do not get under a vehicle that is supported by a jack. No person should place any portion of their body under a vehicle that is supported by a jack.

Do not start or run the engine while the vehicle is only supported by the jack.

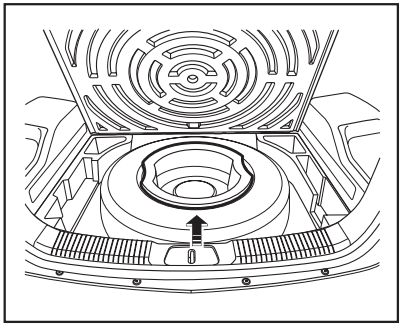
All passengers should be out of the vehicle when it is being jacked.

Use the jack only at the designated lifting points. Use in other locations may result in the vehicle falling of the jack, or damage to the vehicle.

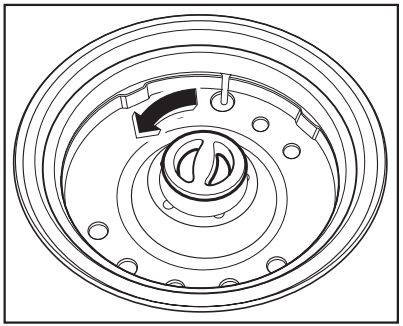
The vehicle should only be jacked on hard, level surfaces.

### Removing the spare tyre

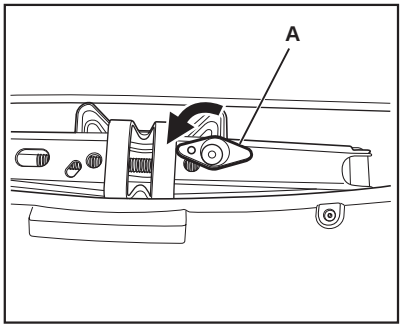
1. Park on level surface.
   Point the wheels straight ahead
2. Apply the park brake.
3. Remove the ignition key.
4. Place the shift lever in **P** (automatic transmissions), in 1st or reverse gear (manual transmissions).
5. Open the tailgate.



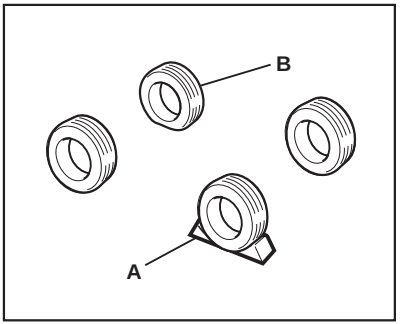
6. To access the jack and tools slide the two latches towards the centre and lift the floor panel upwards. See Vehicle tools on page 159.



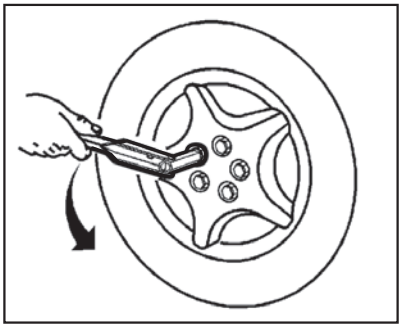
7. Remove the wing bolt from the spare wheel by rotating it anticlockwise.
8. Remove the spare wheel.



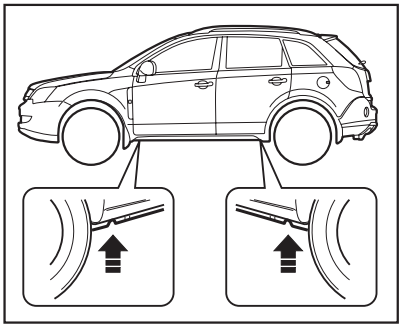

9. Remove the wing bolt (A) from the jack by rotating it anticlockwise.
10. Remove the straps holding the bag.



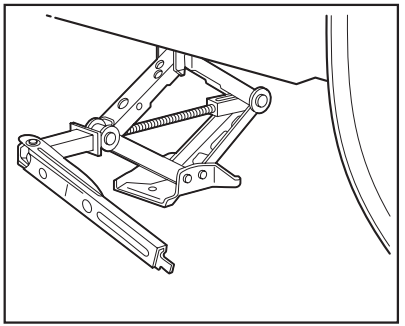

11 .Chock the wheel diagonally (A) opposite the flat tyre (B) with a suitable solid object.



12. On the flat tyre, turn the wheel wrench to loosen the wheel nuts, one turn each.



13. Place the jack under the jacking point nearest the tyre to be changed.



14. Attach a wheel wrench to the jack (A).
15. Rotate the jack handle clockwise to raise the jack, until the jack engages with the jacking point (B).
16. Raise the vehicle until there is room for the spare wheel to fit in place.

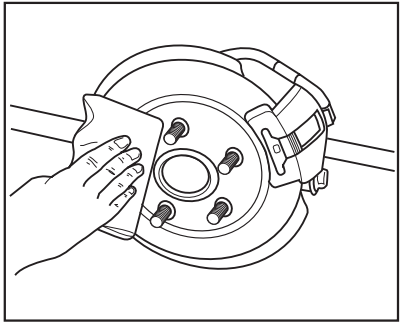
**Note**
Do not raise the vehicle off the ground more than necessary to change the wheel.

**⚠Warning**

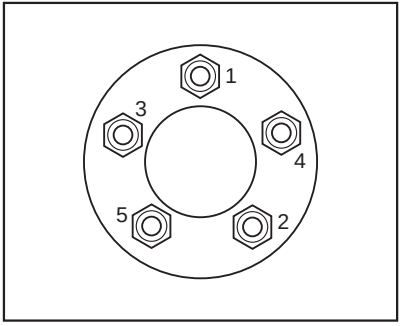
Failure to position the jack as described could cause the vehicle to slip off the jack.

Do not get under a vehicle that is supported by a jack. No person should place any portion of their body under a vehicle that is supported by a jack.

17. Remove the wheel nuts and wheel.



18. Remove any dirt or rust from the wheel nuts and studs, mounting surfaces and spare wheel.
19. Place the spare wheel on the wheel mounting surface.
20. Replace the wheel nuts by hand and lightly tighten with a wheel wrench.
21. Rotate the jack handle anticlockwise to lower the vehicle.
22. Remove the jack and wheel wrench.




23. Tighten the nuts firmly with the wrench in the pattern shown. The required torque is 140 Nm (Newton metres).
24. Replace the flat tyre and tools in the load compartment.

**Note**

Have the flat tyre repaired or replaced as soon as possible and fitted to the vehicle.

**⚠Warning**

The steel spare wheel is for temporary use only. The vehicle must not be driven at more than 80 km/h when this wheel is fitted.

As soon as possible after changing a wheel, have the wheel nuts tightened with a torque wrench to 125 Nm (Newton metres) evenly in the sequence shown (refer to Step 23) as wheel nuts which have not been tightened properly could eventually allow the wheel to come off while the vehicle is moving.

Have the repaired tyre balanced on the vehicle.

## Jump starting

Read the following warnings and procedure in full before attempting to jump start the vehicle.

If you are still unsure about jump starting, Holden strongly recommends for your safety and that of the vehicle that you seek the assistance of a suitably trained service technician.

**⚠Warning**

Do not push start or tow start the vehicle. If unburnt fuel were to reach the catalytic converter and ignite, the converter could overheat or be destroyed by backfire. Therefore, if the battery is flat, you can jump start, but do not push start the vehicle.

To protect the vehicle's electrical system, never disconnect the battery when the engine is running. Never charge the battery while it is still connected to the vehicle. First disconnect the negative cable, then the positive cable. The polarity of the battery, i.e. the connections for the positive and negative cables, must not be interchanged when reconnecting. First connect the positive cable, then the negative cable.

**⚠Warning**

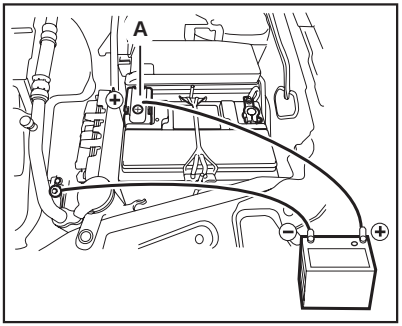
Batteries produce explosive gases, contain corrosive acids and supply levels of electrical current high enough to cause burns. Therefore, adhere to the following when working near a battery:

- Do not use open flames or sparks near the battery.
- Do not smoke near the battery.
- Wear eye protection such as safety glasses and avoid leaning over the battery.
- Battery acid is corrosive. If it gets on your skin, wash with plenty of water immediately. If it gets in your eyes you should not only flush with plenty of water but should also seek medical help. Battery acid also damages paint and fabrics. To minimise damage, wash off immediately.
- Make sure that any batteries that have filler caps are properly filled with fluid.
- Remove rings, metal watch bands and other metal jewellery before working around the battery.
- Never use a quick charger to start the engine.
- If you have a telephone fitted to the vehicle, remove the fuse for the telephone before jump starting. Remember to replace the fuse afterwards.
- To prevent damage to the audio system, switch it off before jump starting the vehicle.

## Jump starting procedure

**Note**

The battery in both vehicles must have a negative earth and a 12 volt rating.




1. Position the two vehicles so they are not touching.
2. Apply the park brakes.
3. Place the shift lever in position **P** (automatic transmission) or neutral (manual transmission).
4. Turn the ignition key to **LOCK**.

5. Switch off all lamps and accessories in both vehicles, except the hazard warning flasher or any lamps needed for the work area.
6. Attach one end of the red jumper lead to the positive terminal of the vehicle with the charged battery (identified by a red +).
7. Remove the cover (A) on the vehicle with the flat battery, by squeezing the two clips together.
8. Attach the other end of the red jumper lead to the positive terminal of the vehicle with the flat battery.
9. Attach one end of the black jumper lead to the negative terminal of the vehicle with the charged battery (identified by a black –).
10. Attach the other end of the black jumper lead to a solid stationary, metallic point on the engine of the vehicle with the flat battery.

    This may require the removal of the engine cover. Remove the engine oil filler cap before pulling up on the cover.

**Note**

- Do not connect directly to the negative terminal of the battery, as this could cause sparks.
- When making all connections, ensure the jumper lead clamps do not touch each other. Also, ensure the jumper leads are not on or near pulleys, fans or other points that will move when the engine is started.

11. Start the engine in the vehicle with the charged battery and run the engine at a moderate speed.
12. Then start the engine in the vehicle with the flat battery.

    Attempts to start the engine with the flat battery should be made at one minute intervals and should not last longer than 15 seconds.
13. Allow both engines to idle for approximately 3 minutes with the leads still connected.
14. Leave the engine running while removing the jumper leads in the exact reverse order they were installed.

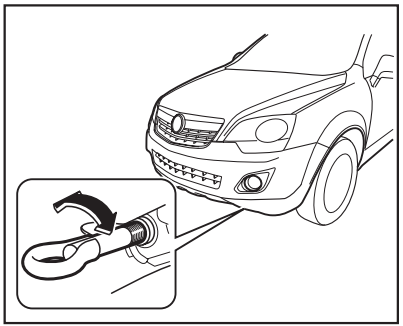
    While removing each clamp, ensure they do not touch any other metal while the other end remains attached.

## Towing a disabled vehicle

Proper lifting or towing equipment is necessary when lifting or towing the vehicle to prevent damage. State and local laws must be followed.

### Towing the vehicle

In an emergency, the vehicle may be towed on all four wheels for short distances only, using the front towing eye.



### Emergency towing procedure

Tow only on hard-surfaced roads for a short distance and at low speeds:

1. Fit the towing equipment to the front towing eye.

   Do not attach towing equipment to the bumpers or brackets, suspension or cross members.
2. Turn the ignition key to **ACC** to enable the steering lock, windscreen wipers and turn signals operation.
3. Place the shift lever in **N** or neutral.
4. Release the park brake.

   **Note**

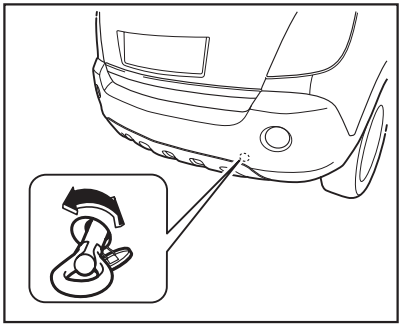
   Automatic transmission: If the vehicle's battery is flat and the vehicle requires towing, see Automatic transmission shiftlock control system on page 102.

**Notes**

- A driver must be in the vehicle to steer and operate the brakes.
- Drive slowly when towing.
- Power assist for brakes and power steering are not available when the engine is turned off. The brakes and steering still function, but require greater effort.
- To prevent exhaust fumes entering the towed vehicle, close the windows and press .
- Automatic transmission: Do not tow for more than 55 km or at speeds over 55 km/h.
- Vehicles with damaged transmissions must not be towed.
- The wheels, axles, drive train, steering and brakes must be in good condition.
- Only the driver should be inside a towed vehicle.

## Towing another vehicle

In an emergency, another vehicle may be towed using the rear towing eye.



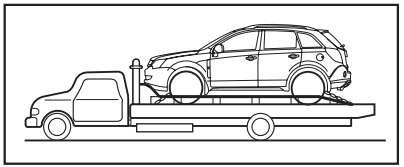
## Emergency towing procedure

1. Locate the rear towing eye attachment in the compartment under the rear load area floor cover.
2. Open the cover plate on the bumper bar by pressing the base of the cover and pulling it downwards.
3. Screw the towing eye clockwise, firmly into place, using the handle of the wheel wrench. See Vehicle tools on page 159.

   **Note**
   Apply force in a straight direction. Do not apply force from any side direction.

## Front Wheel Drive (FWD) vehicles

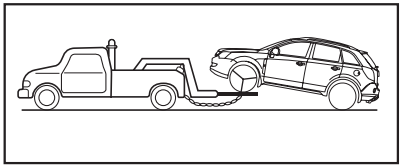
### Flat-bed tow truck



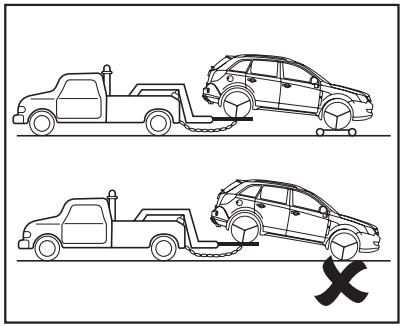
A flat-bed tow truck is the best method of towing the vehicle to avoid damage.

### Standard tow truck

If a flat-bed tow truck is not available:



1. Use a standard tow truck, where the front wheels are raised and the rear wheels are in contact with the ground.



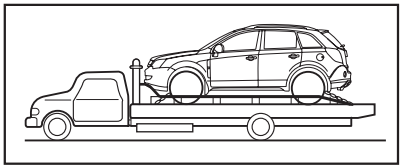
2. Alternatively, use a standard tow truck and a towing dolly to prevent the front wheels from contacting the road.

**Caution**

If the vehicle is towed with the front wheels contacting the road, the vehicle's drive system could be severely damaged.

## All Wheel Drive (AWD) vehicles

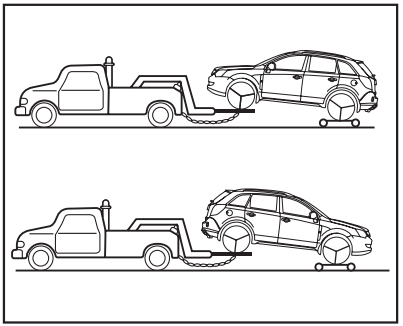
### Flat-bed tow truck



A flat-bed tow truck is the best method of towing the vehicle to avoid damage.

### Standard tow truck

If a flat-bed tow truck is not available:



Use a standard tow truck using a towing dolly to prevent the front or rear wheels from contacting the road.

**Caution**

If the vehicle is towed with the front or rear wheels contacting the road, the vehicle's drive system could be severely damaged.

# Appearance care

## Exterior care

### Washing

The paintwork of the vehicle is exposed to environmental influences. Wash and wax regularly. When using automatic vehicle washes, select a programme that includes waxing.

Bird droppings, dead insects, resin, pollen and the like should be cleaned off immediately, as they contain aggressive constituents which can cause paint damage. Failure to do so may result in permanent damage, particularly in hot weather conditions.

Road bloom is a gradual build up of road and environmental grime. This should be removed with a paint cleaner once a year, in addition to normal washing.

If using a vehicle wash, comply with the vehicle wash manufacturer's instructions. Never use an automatic wash that requires anything touching the paint (other than water). The wipers must be switched off. Remove external accessories such as roof racks etc.

If you wash your vehicle by hand, make sure that the insides of the wheel housings are also thoroughly rinsed out.

Clean edges and folds on opened doors and the bonnet as well as the areas they cover.

Have the door hinges of all doors greased by a Holden Dealer.

**Caution**

Do not clean the engine compartment with a steam-jet or high-pressure jet cleaner.

Thoroughly rinse and chamois off the vehicle. Rinse chamois frequently. Use separate chamois for painted and glass surfaces: remnants of wax on the windows will impair vision.

Do not use hard objects to remove spots of tar. Use tar removal spray on painted surfaces.

**Note**

For certain body colours, some variation in gloss and colour may exist in the engine bay or load area and on the underside of the vehicle.

**⚠Warning**

Take care when moving the vehicle after washing, in case water has affected the brakes. Applying the brakes lightly will indicate whether they have been affected. To dry them quickly, lightly apply the brakes while maintaining a slow forward speed with a clear area ahead, until brake performance returns to normal.

### Exterior lamps

Headlamp and other lamp covers are made of plastic. Do not use any abrasive, solvent based cleaners or caustic agents and do not dry-clean them.

### Air intakes

Clear debris from the air intakes, between the bonnet and windscreen and below the front bumper, when washing the vehicle.

### Polishing and waxing

Wax the vehicle regularly (at the latest when water no longer beads).

Polishing is necessary only if the paint has become dull or if solid deposits have become attached to it.

Paintwork polish with silicone forms a protective film, making waxing unnecessary.

Plastic body parts must not be treated with wax or polishing agents.

### Windows and windscreen wiper blades

Use a soft lint-free cloth or chamois leather together with window cleaner and insect remover.

- Never use abrasive cleaners to clean glass.
- Refer to a Holden Dealer for windscreen washer additive.
- Old wiper blades can cause windscreen scratching. Regularly inspect and replace them.

| Caution |
| --- |
| Do not operate the wiper blades by hand as this damages the wiper drive mechanism. |

When cleaning the rear window, make sure the heating element inside is not damaged.

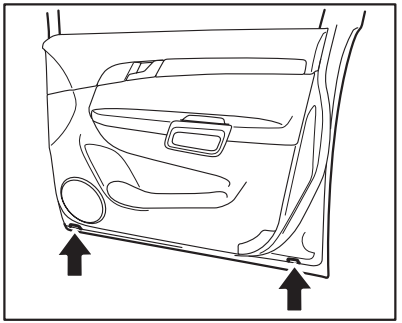
Clean smearing wiper blades with a soft cloth and window cleaner.

### Wheels and tyres

Do not use high-pressure jet cleaners.

- Remove oil and grease with soap and water or detergent.
- Do not use petrol to clean tyres.
- Use a good quality tyre and bumper shine if required.
- A good quality wheel cleaner can be used for cleaning alloy wheels.
- Do not use abrasive cleaners.

### Door drain holes



- Clear drain holes at the bottom of the door panels from dirt and other foreign materials which could trap water inside the panels.
- Clean clogged drain holes with a plastic pin or peg.
- Avoid scratching the paint work.

### Paintwork damage

Rectify minor paintwork damage with a touch-up pen before rust forms.

Have more extensive damage or rust areas repaired by your Holden Dealer.

**Caution**

Do not spill coolant on the vehicle's exterior surfaces as it can damage the paint work. If you do, wash it off immediately.

### Underbody

Substances can cause rust under the vehicle.

- Hose the underbody with clean water whenever the vehicle is washed.
- Where the vehicle is exposed to heavy concentrations of corrosive materials, inspect and wash the complete underbody at least once each year, preferably after winter exposure.

## Interior care

**⚠Warning**

Many cleaning products are toxic, flammable or may damage the interior. When cleaning the interior, avoid volatile cleaners such as acetone, lacquer thinners, enamel reducers, nail polish removers, or cleaners such as laundry soaps, bleaches or reducing agents. Never use carbon tetrachloride, petrol or naphtha for any cleaning purpose. Ensure that the vehicle is well ventilated while using any cleaners and always follow the cleaning product manufacturer's recommendations. Water based cleaners, rather than solvent based cleaners, are recommended.

Steam cleaning of seats is not recommended.

### Interior and upholstery

Only clean the vehicle interior, including the instrument panel fascia and panelling, with a dry cloth or interior cleaner.

The instrument panel should only be cleaned using a soft damp cloth.

Clean fabric upholstery with a vacuum cleaner and brush. Remove stains with an upholstery cleaner.

Clean seat belts with a mild, non-abrasive soap and lukewarm water.

After washing, thoroughly, sponge the solution out of the belts.

### Leather

Clean regularly using a leather revitaliser or mild detergent.

- Apply revitaliser using a lint free cloth and rub it onto the leather.
- Do not saturate the leather with the cleaner and do not pour on directly.
- Allow to dry naturally.
- For deeply embedded soil and dirt, use a leather cleaner.
- After using a leather cleaner/ revitaliser, apply a leather protector.

  A leather protector is designed to repel dirt and provides water resistance.

**Note**

- Clean and protect leather at least twice a year.
- Do not use synthetic cloths or brushes.

| Caution |
| --- |
| Close Velcro fasteners, as open Velcro fasteners on clothing could damage seat upholstery. |

### Plastic and rubber parts

Plastic and rubber parts can be cleaned with the same cleaner as used to clean the body. Use interior cleaner if necessary. Do not use any other agent. Avoid solvents and petrol in particular. Do not use high pressure jet cleaners.

## Floor mats

- Pull up the small peg at the corner to remove the mat.
- Push the mat down onto the peg to replace.

# Service and maintenance

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# General information

## Service information

In order to ensure economical and safe vehicle operation and to maintain the value of your vehicle, it is of vital importance that all maintenance work is carried out at the proper intervals as specified.

See your Service/Warranty Booklet for the service schedules and for more information.

## Engine oil life system

The vehicle has a computer system that lets you know when to change the engine oil and filter.

The frequency of the oil change depends on driving patterns, engine RPM and engine temperature.

When the system has calculated that oil life has been diminished, will illuminate. See Change engine oil light on page 57.

When illuminates continuously, have the engine oil and filter changed as soon as possible, within the next 1,000 km.

It is possible that, if you are driving under the best conditions, the oil life system may not indicate that an oil change is necessary for over a year. However, the engine oil and filter must be changed at least once every year in accordance with the Maintenance schedule outlined in the Service/Warranty Booklet.

# Recommended fluids, lubricants and parts

| Engine type | Petrol<br>2.4 L DOHC L4 | Diesel<br>2.2 L DOHC L4 |
|---|---|---|
| Engine oil specification | 5W-30; dexos™ (dexos™ 1);<br>API SM; ILSAC GF-4 | 5W-30; dexos™ (dexos™ 2);<br>ACEA C3 |
| | SAE 5W-30 is the best viscosity grade for the vehicle.<br>SAE 0W-30/40 or 5W-40 can also be used. | |
| Coolant specification | 50% clean fresh water and 50% Dexcool® anti-freeze coolant,<br>conforming to specification number GM6277M | |
| Automatic transmission fluid | Dexron® VI | |
| Manual transmission fluid | SAE 75W-85 GL4 | |
| Differential oil | Synthetic Hypoid 75W/90 GL5 | |
| Brake and clutch fluid | Hydraulic Brake Fluid SAE J1704 DOT 4 Grade | |
| Power steering fluid | Dexron® VI | |
| Battery for remote control | CR 20 32 | |
| Battery | 12 volts, 60 amp hours | 12 volts, 90 amp hours |

# Technical data

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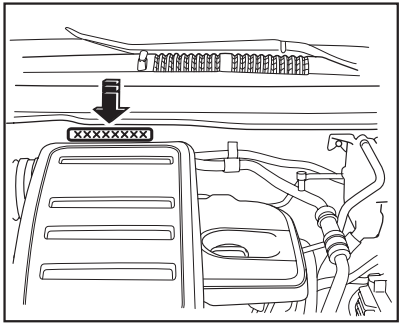
# Vehicle identification

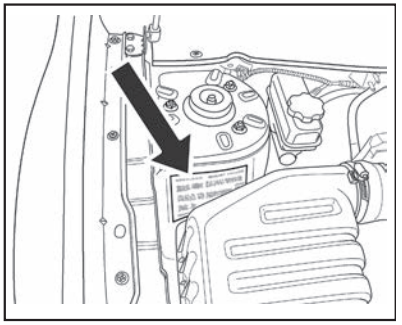
## Identification number




The vehicle identification number (VIN) is located inside the engine compartment, on the bulkhead.

Each vehicle has its own, individual identifier and is used for the identification of spare parts.

## Compliance label

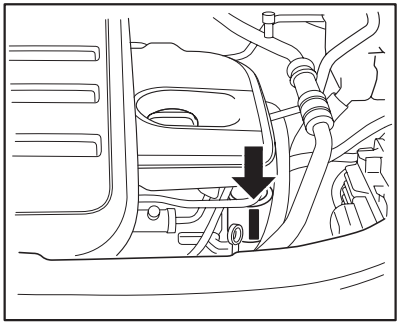


The compliance label is located inside the engine compartment at the front of the driver side suspension tower.

This label shows the vehicle make, model series, date of manufacture, VIN, approved seating capacity and approval number.

## Engine number location

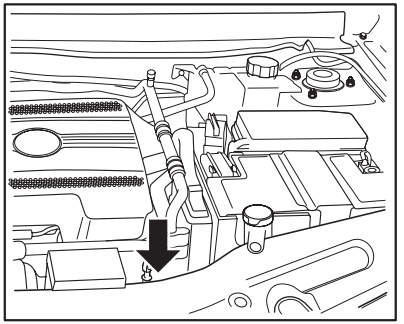
### Petrol engine



The engine number is located inside the engine compartment.

It is stamped onto the engine block under the exhaust manifold, toward the passenger side.

### Diesel engine



The engine number is located inside the engine compartment.

It is stamped onto the engine block under the oil filter dipstick, toward the passenger side.

# Vehicle data

## Engine data

| Engine type | Petrol<br>2.4 L DOHC L4 | Diesel<br>2.2 L DOHC L4 |
|---|---|---|
| Engine capacity | 2,384 | 2,231 |
| Engine power and torque | Please refer to holden.com.au | |
| Octane rating (RON) | Unleaded regular 91 or higher | - |
| Diesel fuel | - | Meeting Euro Standard EN590 |

## Vehicle weight

Overloading is a safety hazard and could also shorten the life of the vehicle.

### Maximum vehicle payloads

| Occupants<br>(average 68 kg each) | Luggage<br>(kg) | Total load<br>(kg) |
|---|---|---|
| 5 | 68 | 408 |

## Axle loads

### Maximum front and rear axle loads

Do not exceed the maximum axle loads, including the weight of any options or accessories fitted to the vehicle. Take the roof rack load into account when determining the rear axle load. Weigh at a weighbridge if unsure.

| Front axle load (kg) | Rear axle load (kg) |
|---|---|
| 1,250 | 1,350 |

## Dimensions (mm)

| Length | Width excl. mirrors | Height | Wheel base | Front track | Rear track |
|---|---|---|---|---|---|
| 4,596 | 1,850 | 1,761 | 2,707 | 1,569 | 1,576 |

## Capacities

| Engine type | Petrol 2.4 L DOHC L4 | Diesel 2.2 L DOHC L4 |
|---|---|---|
| Refill engine oil including filter | 4.7 L | 5.6 L |
| Coolant | 8.5 L | 9.0 L |
| Fuel tank | 65.0 L | 65.0 L |

## Tyre pressure

| Tyre size | Recommended cold tyre inflation pressure | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Normal load | | | | Maximum load | | | | Spare | |
| | Front | | Rear | | Front | | Rear | | - | |
| | kPa | PSI | kPa | PSI | kPa | PSI | kPa | PSI | kPa | PSI |
| 235/65 R17 104H | 240 | 35 | 240 | 35 | 240 | 35 | 280 | 41 | - | - |
| T215/70 R16 100 | - | - | - | - | - | - | - | - | 280 | 41 |

# Customer information

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## Customer satisfaction procedure

We want you to be happy with your new vehicle, together with the people you deal with while you have the vehicle.

Normally, any problems with the sales, operation, servicing, parts/accessories or the validity of original equipment supplied with your vehicle will be handled by your Holden Dealer Sales and Service Department.

We realise however that, with the best intentions, misunderstandings sometimes occur.

Therefore, we suggest you discuss any concern with one of the Holden Dealer management people.

If you have not received satisfaction from the Sales Manager or Service Manager, go to the General Manager or to the Dealer Principal.

By now you should have satisfaction. If not, the Holden Customer Assistance office is at your disposal.

## Customer assistance offices

### Australia

The Holden Customer Assistance representatives can be telephoned from anywhere within Australia for only the cost of a local call.

The contact number is:

**1800 033 349**

Naturally, telephoning is the quickest and the best way to contact. However, if you prefer to write the address is:

The Manager
Holden Customer Assistance Centre
GPO Box 1714
Melbourne 3001

Your letter should clearly outline your concern or query and include:

- Your name and address
- Telephone numbers, both private and business
- Servicing dealer's name and address
- Vehicle model
- Vehicle identification number (I.S.O.V.I.N.), refer to the inside front cover of the Service/ Warranty Booklet in your vehicle's glove box
- Date of purchase
- Current odometer reading

Most of this information will be found on the Vehicle Identification Certificate, located inside the front cover of the Service/Warranty Booklet in your vehicle's glove box.

Before you write however, remember that the telephone is the quicker and more efficient means of communication.

## New Zealand

The information in this Owner's Handbook applies primarily to Australian Holden vehicles and there may be some differences to the Warranty and Owner Assistance provisions for New Zealand.

Applicable details for New Zealand are set out in the Holden Warranty and Owner Assistance Information booklet enclosed in the New Zealand glove box wallet.

New Zealand Assistance can be reached on:

**0800 HOLDEN** (**0800 465 336**)

This number provides access to New Zealand Roadside Assistance as well as New Zealand Customer Assistance.

If you prefer to write the address is:

The Manager
Holden Customer Assistance Centre
PO Box 11195
Ellerslie
Auckland 1542

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